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BORN FOR ARCHAEOLOGY



BORN FOR ARCHAEOLOGY

An Autobiography

H.D. SANKALIA



 B.R. Publishing Corporation

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CONTENTS

1. Birth, Childhood and Education	1
2. In London	17
3. Deccan College	34
4. Experience of Prehistory	48
5. Understanding Archaeology	66
6. Nehru Fellowship	82
7. Archaeology for the Masses	107
8. Future of Indian Archaeology	117
Author's Bio-data & Books	149



Birth, Childhood and Education

1. *Not trained but born to be an archaeologist*
2. *Childhood* 3. *Captain of a Cricket Team*
4. *Long Walks* 5. *Epic Stories* 6. *The Aryans*
7. *Writer* 8. *History Scholarship* 9. *First Research Paper*
10. *Nālandā, LL.B. and M.A.*
11. *Marriage* 12. *Harijan Movement and Swadeshi* 13. *Father Heras.*

IN my undergraduate class I was a student of Sanskrit and English, while for the M.A. degree I wrote a thesis on the University of Nālandā for which I had to study history or, to be more precise, Ancient Indian History. Thus, I never studied archaeology during my college days. And though I got a Ph. D. degree in archacology, I was never a student of this discipline whether in India or abroad. Ancient Indian History first introduced me to inscriptions, and then to architecture and afterwards to sculpture, iconography, numismatics, and epigraphy and finally to archaeology.

Still more wonderful—and I believe it is providential—was my introduction to prehistory, which later became my life-work. That is what Rao Bahadur Dikshit, a former Director-General of Archaeology of India, remarked one day standing under the doorway of my room in the Jejeebhoy Castle in Pune. Archaeology brought me in touch with geology,

2 palaeontology, climatology, and ethnography. Thus, in one way or the other, all or major aspects of archaeology I have had occasion to handle. Some of my friends have called me a versatile genius and though I feel greatly flattered by this description, people have wondered how all this became possible. The only answer that I can give now is that I found it actually recorded in a book on astrology, called *Bhṛigu Saṁhitā*, that a person born under such-and-such planetary conjunction (*yoga*) will one day be an archaeologist. And I happen to have been born under such a conjunction. Two other similar *saṁhitās* confirmed this prediction, though their descriptions were not as precise as the one in *Bhṛigu Saṁhitā*. They also said that the person born under such-and-such planetary conjunction would be interested in *all old things*. Thus, behind all my actions one can see the hand of an invisible driving force. I think this is more or less true of all human beings, but in many persons it is not as evidently clear as in my case.

Another trait of my character was explained a few months ago, after I had prepared the first draft of this autobiography.

Two young followers of Krishna Consciousness Movement, one a young man of about twenty, an Englishman and the other, an American, happened to come to our residence to tell us about this Movement. Both the young followers were well-read, and knew Sanskrit also. I found them to be very sincere devotees of Shri Krishna. The elder one happened to be an amateur astrologer as well. Somehow he got interested in us and requested us to show him our horoscopes. On seeing my horoscope, he told me that though I must have made some money, I would renounce everything. I asked him what made him say so. He explained to me that it was because Jupiter in the 9th House in my horoscope indicated that I would choose the vocation of a real *guru*. Not only has such a person the desire

and ability to teach, but a tendency to renounce all that he has gathered in his life through his profession.

3

This reading was remarkably true of my life, and in consonance with my ways of thinking. Not only have I guided a large number of students, particularly at the Ph. D. level, but even now I would like to meet young students and help them understand this or that subject. As far back as 1958, I had thought of building a small house on the campus of the Deccan College, if the Trustees permitted me to build one by granting a piece of land with a definite legal contract that the house, after the death of both of us—myself and my wife—would belong to the College. This suggestion the Trustees had readily accepted.

Moreover, all the books that I have—and there are quite a few and many of them quite expensive—I have presented to the College Library. Further, I have also made a provision in my will for the physical expansion of the department, as the present one is indeed insufficient. God willing, this last wish will also be fulfilled.

Not only this, but I have a strong desire to donate my body. As soon as I die let the limbs of my body such as the cornea of the eyes, and the kidneys (if they are in good condition), be immediately removed, and used for transplantation or stored for future use. The rest of the body may be skinned, and the skin also used for grafting. The articulated skeleton might then be presented to a medical college or the Department of Archaeology, if they so desire. Thus both the mortal remains and other effects will be utilised for the benefit of the students.

2

As my mother's health was indifferent I was born so subnormal in weight and size that the doctor

4 who had attended to my birth gave up all hopes of my survival. Thin and rickety, I looked no bigger than a mouse, so my mother told me. However, I survived and though I never picked up much flesh and fat, I was very lively. I could never sit still or quiet, with the result that while hardly two years old, I scalded my hand with a pot of boiling water. But for the doctor's prompt treatment I would have died certainly. The accident, however, left a deep scar on my left hand. I do not know why I always like to play with boiling water; and may be because of this there are very few days in my life when I have not heated up water for making tea. Vivaciousness is my second nature. I must have some physical work to do—be it walking, running or gardening. In my childhood I spent more than half the day flying kites, playing cricket or *gillīdaṇḍā*. During the monsoon when we could not play outdoor games, we played cards but I always liked outdoor games.

3

When I grew up I formed my own cricket team and played this game right up to my M. A. class and liked it so much and played it so well that the members of the staff and students at the Deccan College were surprised to see me on the occasion of the college annual day that I could bowl, bat, and field as well as a seasoned player even at the age of sixty.

Captainship of the cricket team (which comprised most of the residents of the building where we lived in C.P. Tank, Bombay) not only gave me a bit of opportunity of organizing and running a concern on no-loss-no-profit basis, but it also taught me how and when to take a firm action. Thus, if the situation demanded I did not hesitate to expel a player from the field ; of course, such occasions came but once or twice during the course of ten years. The love of outdoor games gave me stamina enough though I remained always lean and thin.

To the love of cricket was added the love of long walks, particularly in the countryside; a love which came to be developed gradually. Almost twice a year, my parents used to go to Matheran or Lonavala or Deolali. Usually we stayed in a "sanatorium" (a guest-house is called sanatorium in such places). Here I would go out with my father almost everyday to the distant "points", and walking ten to fifteen miles a day was no problem for me. In spite of taking long walks everyday I appeared very weak. In 1929 I had accompanied my brother-in-law's eldest son, Kapil and his younger brother and sister to Mahabaleshwar. Kapil was then recuperating from typhoid. One day a guest came to meet us, and he was surprised when he was told that Kapil, and not I, was the invalid who had been recuperating! Thus nobody would believe that I was capable of enduring such physical hardships. I did not know then my habit of long walks would pay me dividends one day when as an archaeologist I would trudge long distances in plains, dales, and hills.

5

From a very early age I also developed an intense love for the stories of our epics—the *Rāmāyaṇa* and the *Mahābhārata*—and the *Puranas* particularly the *Bhāgavata*. By the age of ten I had already read these stories in Gujarati translations as well as the lives of Napoleon I, Shivaji, and Rana Pratap and the whole of Tod's *Rajasthan*. In fact, I would not sleep unless my father told me a story. Thus was created a desire to know our past, though I am sure I did not know then even the word "archaeology". These stories moulded my attitude to life. Of the many striking incidents, the one that impressed me most was Napoleon's march to Jena and Austerlitz and his brilliant victory when he was thwarted from his attempt to cross the English

6 Channel by Nelson. The lesson that I derived from this incident was : "If not this, then that ; but never sit still with folded hands".

6

The desire to know our past took a definite shape in May 1924. At that time I was staying with my parents in a 'sanatorium' at Nasik. I had appeared for the matriculation examination the second time because I had failed to pass the first time by four marks in General English. The 'sanatorium' had a library. In it I found a Gujarati translation of Bal Gangadhar Tilak's *The Arctic Home in the Vedas*. I read through this book though I do not know how much of it I then understood. But one thing that impressed me was that I should do something to know about the Aryans in India for which, I thought, a good knowledge of Sanskrit and Mathematics would be necessary. So at the age of fifteen or thereabout I decided to opt for Sankrit for the degree of B.A. I also decided to do mathematics in the first year of Intermediate Arts examination. This was the most important decision from which I did not deviate in the least. And knowing how indecisive Indian students are my decision must be regarded as something "providential".

7

The second year of matriculation examination was also a turning point in my career from another angle, for it laid the foundation of my career as a writer. The Elphinstone High School had then a new Principal whose name was Katti. Though he was a Senior Wrangler, he taught us General English. He soon found out that I was not such a bad student as to fail in General English, for in the weekly examination I had secured 29 marks out of 50. He called me one day in his office and advised me to get over my nervousness, for he thought that nervousness was the main reason that I had failed.

He also wanted me to write out what I had read in the morning instead of reading the same thing again and trying to commit it to memory. I followed his advice as best as I could and when I joined the St. Xavier's College next year, I could prepare my own notes after listening to the professors' lectures. These notes were avidly sought by my fellow-students. At St. Xavier's College I also wrote essays on general topics which Father Fell and Father Dhur would want us to write from time to time. On the strength of one of these essays, my name was included on the list of students selected for some special coaching.

8

I did well in the Intermediate Arts examination getting a high second. And though I stood second in "History and Administration" I decided to stick to my original plan, made as far as 1924, namely to take up Sanskrit, and not History, for my B.A. examination. I would have been a student of History in B.A. class had I been, according to first valuation, placed first in "History and Administration". For, then I would have been the recipient of Wordsworth Scholarship which required the scholarship holder to take up History and Politics in B.A. But my answer-book was re-examined by a panel of examiners, and since I had answered the last question giving only the outline and not fully, it was decided to grace the other student by two marks and place him first. I learnt these details later from our teacher, Professor Lala, a Sindhi. He did not know that I belonged to St. Xavier's College.

In my undergraduate class I, therefore, took Honours in Sanskrit and Voluntary English. The latter also included the study of textual criticism. Here we had to study *King Lear* and Bradley's Shakesperian criticism. Bradley aroused my latent faculties of textual criticism. I do not know how I wrote a fine essay on *King Lear*. Both my nephew, who was

8 then in the final year of B.A. class and my uncle were surprised to see that a boy who had failed in General English in the matriculation examination could write an original essay on *King Lear*.

But that was not all. We had to study four or five Sanskrit plays. One of them was *Kuṇḍamālā* by Dinnaga. The theme was so similar to that of Bhavabhūti's *Uttara-Rāmācharita*, which I had occasion to study in the Intermediate Arts class, that I thought that the theme of *Uttara-Rāmācharita* must have been based on *Kuṇḍamālā*. The idea gripped me so much that I got up from my bed one day at midnight and wrote out a very detailed comparison and substantiated each of my statements by giving illustrations from the texts.

9

At that time Father Zimmermann used to teach us Sanskrit. Like all German Indologists he too was known for his critical insight. One day I casually spoke to Fr Zimmermann about my paper. He immediately called me to his room at the St. Xavier's College and asked me to read out the whole paper to him. He was so much impressed by this comparison that he asked me to read it before the Sanskrit Society. I read out this paper entitled "*Kuṇḍamālā* and *Uttara-Rāmācharita* and argued logically, step by step, how Bhavabhūti had improved upon Dinnaga's *Kuṇḍamālā*. Prof. K.M. Shembhaverkar, a Sanskrit scholar who was present got very excited, and remarked that a poet of Bhavabhūti's calibre could never have imitated an unknown poet like Dinnaga. In fact, he said, it should be the other way round. However, my arguments were cogent enough and the treatment was unimpeachable so much so that when I thought of re-publishing this article in 1966, after nearly thirty-seven years, not a word had to be changed and, what is more, my views, far from being challenged, were supported by a Bengali scholar who wrote a much larger work

About 1929-30 I was also doing some research under Father Heras in his newly founded Indian Historical Research Institute in Bombay. It appears that Fr Zimmermann had spoken to Fr Heras and others about my article on "*Kuṇḍamālā* and *Uttara-Ramacharita*". So Fr Heras called me to his room and told me that he was quite sure that I would do very well as a research student whether in history or in Sanskrit. B.A. examination over, I gave up Sanskrit and began to study Ancient Indian History under Fr Heras. Naturally, this disappointed Fr Zimmermann. But I told him the kind of career I had chalked out for myself when I was appearing in matriculation examination and I think he was satisfied by my explanation.

10

At the Indian Historical Research Institute, I gave up my research on Pulakeśi II, the famous Chālukyan King of Bādāmi, and selected a totally new subject—the University of Nālandā. A topic like this is multidimensional. While from the history of ancient Indian literature I could reconstruct the history of Nālandā with comparative ease, thanks to my knowledge of Sanskrit; totally new subjects such as art, architecture, and iconography had to be newly learnt to do justice to the subject. These subjects I did not study formally and I picked up these disciplines directly by acquainting myself with the objects of art and architecture and reading about them. Of course, this was how my *guru* Fr Heras had himself learnt these things. What he did in my case was to give me the opportunity to accompany him to Nālandā and many other ancient sites in U. P. and Bihar, ending with a trip to Calcutta and its splendid museum.

Up to that time, I had gone only to places near Bombay, such as Nasik, Deolali and Lonavala, Mat-

10 heran and Mahabaleshwar and that too with my parents. I had also seen such ancient monuments as at Karla, Bhaja, and Kanheri.

The trip to Nālandā was undertaken towards the close of the second year of my M.A. Normally, many students completed their thesis within this period. I was also anxious to do so. But some difficult problems were cropping up. While reading about Nālandā and its contribution to ancient India and Buddhist iconography, I found many references to Tantrism (or Tantricism). What this *ism* was had to be first understood. So I was advised to go to Dr Benoytosh Bhattacharya at Baroda. Bhattacharya had published a fine book on Buddhist iconography. At Baroda he placed so much material at my disposal that instead of completing my thesis in 1931, I decided to do so a year later. During the interval I read not only all about Tantrism, but got through my second LL.B. examination, thus assuring my father and uncle that I was not wasting my time but was doing what both of them, particularly my uncle had expected me to do, namely to join our family business of practising at the courts. I submitted the thesis as I had planned. It should have fetched me not only a First Class, but the Chancellor's Medal as well (which at that time was awarded only to the students of History) as my *guru* had expected. But my referee, who was no less a scholar than the late Professor K.T. Shah, the economist turned culture-historian, pointed out that the section on Tantrism was unduly long and that, according to him, marred the overall excellence of the thesis. Of course, this I had done at the suggestion of Bhattacharya. Anyway I was not at all disappointed. Nor were my father and uncle. Both of them were then anxious that I should settle down in life, join the family firm of lawyers and get married.

But I did not agree. There were several

reasons which I must mention here briefly just to tell my readers how a sensitive youth can be disturbed by the unimaginative people around him. First, since 1921, inspired by Gandhiji, we had all taken to wearing *Khadi*. I had actually made a bonfire of my "merchat cap", for it was thought that we must boycott foreign cloth. Secondly, I personally believed in having a very simple, unostentatious marriage function not only for myself but for all—the rich and the poor alike. So I scrupulously avoided attending such functions as the "caste dinners" and marriages. Thirdly, I abhorred my physical weakness and I thought I was not fit enough to marry. All these had made me to decide against early marriage. I was also afraid that my future wife might not share my views on simplicity in marriage rites and rituals. I had decided, therefore, not to marry, though because of the status of our family and my educational qualifications several good offers of marriage my parents received now and then from Surat and Bombay. There was also another important decision that I had made then and that was not to marry unless I had started earning my livelihood.

To these personal reasons political events gave an additional edge. Mahatma Gandhi had once again embarked upon a fast unto death. This time he undertook the fast for the sake of the Harijans and to prevent Dr Ambedkar from giving them a separate political and social status. Students were being advised to go on indefinite strike by the student leaders like Asoka Mehta. Asoka was junior to me and had attended my lectures on Ancient Indian History.

I was drawn into this movement because at that time I was giving tuition to the daughter of a staunch Congress worker in Bombay. The entire family was so Congress-oriented that meetings were

12 held at their house in Girgaum Back Road—now Vithalbhai Patel Road. During one of these political discussions, I heard that Asoka Mehta was advising students to go on an indefinite strike. I told one of his brothers: "What is needed is some practical work for the cause which is dear and near to Gandhiji instead of strike". He conveyed this advice to Asoka Mehta who invited me to address a gathering of students. This was my first—and last—encounter with politics. But the matter did not rest there. I was asked to prepare a scheme for practical work to be done among the Harijans by the late Manu Subcdar who held an important position in the Congress. Accordingly, we visited a number of Harijan *chawls*. I also accompanied groups of student workers who would campaign from house to house, preaching *swadeshi* and the use of *khadi*. The "Belapur Sugar" had just then appeared in the market. We took samples of this sugar from house to house to popularise it but compared to the sugar-like "*moras*" from Mauritius, this was expensive and not normally preferred by the housewives.

My father got scent of these activities and he thought that I might be clapped in jail. So to wean me away he decided to take me to Matheran. As usual, I had to accompany him. Matheran this time was destined to play a memorable part in my life for it was here that I met my "future" wife. We were neighbours in the sanatorium. Her mother was widowed at a very young age of sixteen with two children—a daughter of three years and a son aged one-and-a-half years. Though highly connected, Taraben had decided to eke out an independent life by giving tuitions in English and music. Because of this she and her children had developed an independent attitude in life.

Sarla, the daughter of Taraben, shared my love of outdoor games and also liked to go out for long walks. Naturally this close association developed into mutual love for each other. Though this was

noticed by my parents and Taraben, the matter remained just at that level. In June my examination results were declared. So Taraben came to our house in C.P. Tank to congratulate me and invited me to their house at Lamington Road. 13

Another development was also taking place at that time. Since I had passed the second year of LL.B., my father and uncle wanted me to join the family firm of pleaders. My uncle, Nathukaka, suggested, taking into consideration my shy nature and weak constitution, that I should sign the articles and become a Solicitor. He had concluded that I was fit for indoor life and desk-work only. But my father took a slightly different view. He said that he would leave the matter to me, though he, perhaps, thought that my uncle's suggestion was not only right but also practical.

13

Fr Heras, my *guru*, thought quite differently. Knowing me much more intimately than my uncle and my father, he felt that I should go to England and get a Ph.D. in archaeology. This suggestion was a surprise to me. For I had never dreamt of going abroad. Nor were we affluent enough so as to "waste" several thousands of rupees in a foreign country. I was also not sure what job I would get after I had returned from England. I shared all these fears with Fr. Heras. He said in his characteristic way, "Hasmukh (my first name), I know all that. What I can assure you is that you will do well. You are fit to be an archaeologist, though I cannot hold out any guarantee that a post will be waiting for you when you return. Or that someone would die and a post would fall vacant just for you!"

Fr Heras then accompanied me to the University to consult various people regarding courses in the Universities of Oxford and Cambridge. Finding that a knowledge of Greek and Lati

14 quired of a Ph. D. student, I ruled out these famous seats of learning, though I liked to be a student in one of these universities. London at that time was unknown to most of us. However, Fr Heras knew K. de B. Codrington, who was then the Curator of the Indian Section of the Victoria and Albert Museum in South Kensington. He advised me to join the University College and not the School of Oriental Studies in London, because archaeology was not taught by the latter Institution. He further suggested that I should work on the "Dynastic Study of Monuments" for my Ph. D. So he advised the School of Oriental Studies to transfer my admission from there to the University of London.

At this time—September-October, 1933—an International Conference was being held at Warsaw in Poland, and it was decided that I should attend it with Fr Heras and then proceed to London. But fate had willed otherwise. Learning about all these developments, Taraben suggested that I should marry her daughter and then go abroad. To this suggestion I immediately replied that I had long ago made up my mind not to marry, and if at all I do, it will be only after I got settled in life.

This reply certainly came as a rude shock to Sarla and her mother. I stopped going to their house at Lamington Road. These events also caused much mental tension which ultimately upset my constitution, frail as it always was. I suffered from severe diarrhea which was diagnosed after two months as due to nervous disorder. What was needed was a change of surroundings and sympathetic treatment. So I went to my cousin, an uncle's daughter at Malabar Hills. Here, gradually I recovered, so much so that I could complete a prize essay which I had written under a pen-name on the "*Chaitya* Caves in the Bombay Presidency" for the Bhagwanlal Indraji Prize and Gold Medal. Hardly had I recovered from several months' attack of nervous diarrhea, when I had an attack of typhoid.

Fortunately, this did not last long nor did it leave me completely debilitated, as this foul disease usually does.

15

The wonder was that my long illness, the first of the kind in my life, did not shake my parents' resolve to send me to England though they were somewhat ill at ease because of my weak constitution, and particularly my inability to eat any kind of food anywhere. I spent that summer vacation at Mahabaleshwar with my would-be mother-in-law and her children. Here I corrected the proofs of the thesis on the Nālandā University which was being printed at a press in Madras. The University of Bombay had given a publication grant of Rs. 750 on the recommendation of P.V. Kane who had liked it very much and wanted a few more illustrations to be included in it.

Though I could not avail of the unique opportunity to accompany Fr Heras to Poland, I got another opportunity and that was to teach Ancient Indian History to the M.A. students in the absence of Fr Heras. This was a purely private arrangement—possible only at that time when rules and regulations were not as stringent as they are now. Otherwise how could a fresh M.A., without any previous teaching experience lecture to the M.A. class? This was not an interlude, but a necessary first step in the formation of my career. A thesis, however well written, helps a student in knowing or mastering only a few aspects of a subject well enough but many corners of his mind remain unilluminated. These can be more fully lighted by teaching alone. A teacher must acquire an overall knowledge of the subject that he teaches to satisfy the varying needs of his students. And this is exactly what had happend. I had to teach the Gupta Period about which I had read a good deal while doing my thesis on Nālandā. But for teaching I had to wade through all the inscriptions of the Guptas and those of their contemporaries, besides

16 the relevant books on the subject. More than knowledge the experience was useful. At first, I was a little nervous, for many of the students were of my age or even older. However, I used to prepare well, and the lectures were well-attended though I do not know whether it was because attendance was compulsory.

Dr. H.D. Sankalia

Date of birth - 10 - 12 - 1908

Place of birth - Bombay

Time - Approx. Between

5 - To 6 am

जन्म लग्न कुंडली

के ८ ह	शु ७ मं	
१०	२ ८ बु	६
११	५ गु	
१२	२	४ चं
३	१	९ ने ३ मू

स्पष्ट ग्रह

ग्रह	२	चं	मं	बु	गु	शु	श	८	के	ह	ने	मू
एश	७	३	६	७	४	६	११	२	८	८	२	२
मंश	२५	०	७	२०	२१	२३	१०	४	४	२३	२४	२
कल	३०	१०	३०	३०	२८	२०	५०	८	८	१४	४	२८

चन्द्र - पुनर्वसु - ४ था चरण कर्क एशि



Right hand palm impression of Prof H D Sankalia



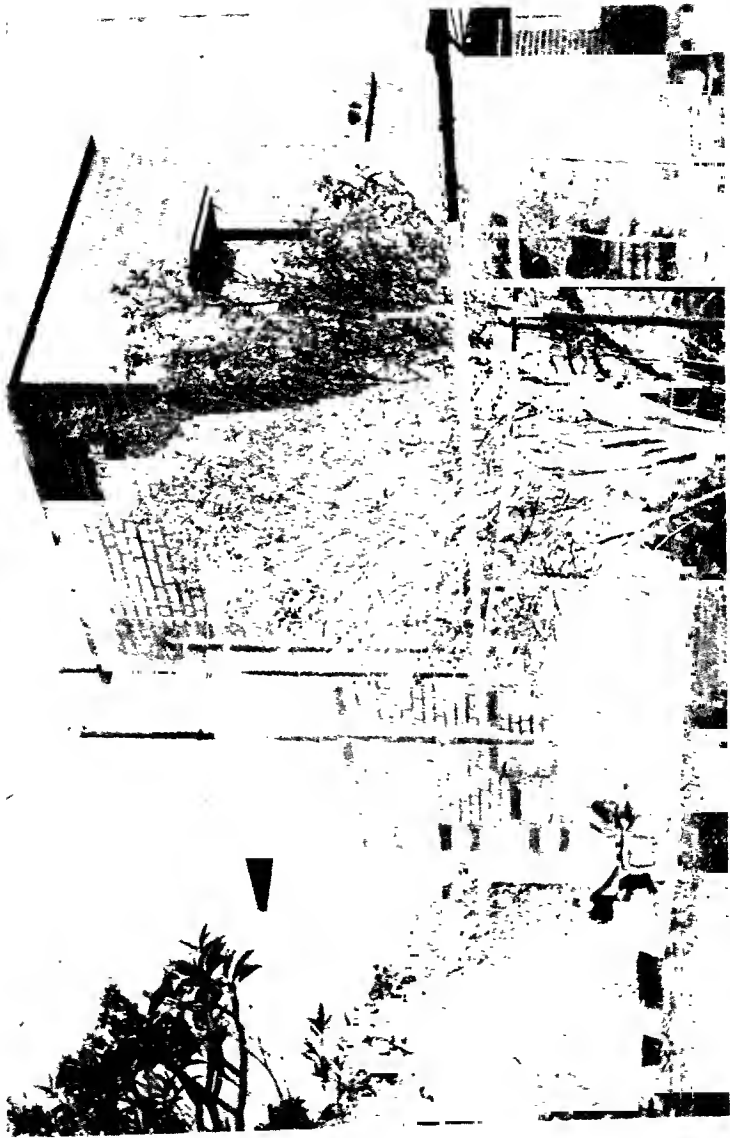
Prof H.D Sankalia, 1974



Shri Dhiraj Lal V. Sankalia
Father of Prof. H. D. Sankalia



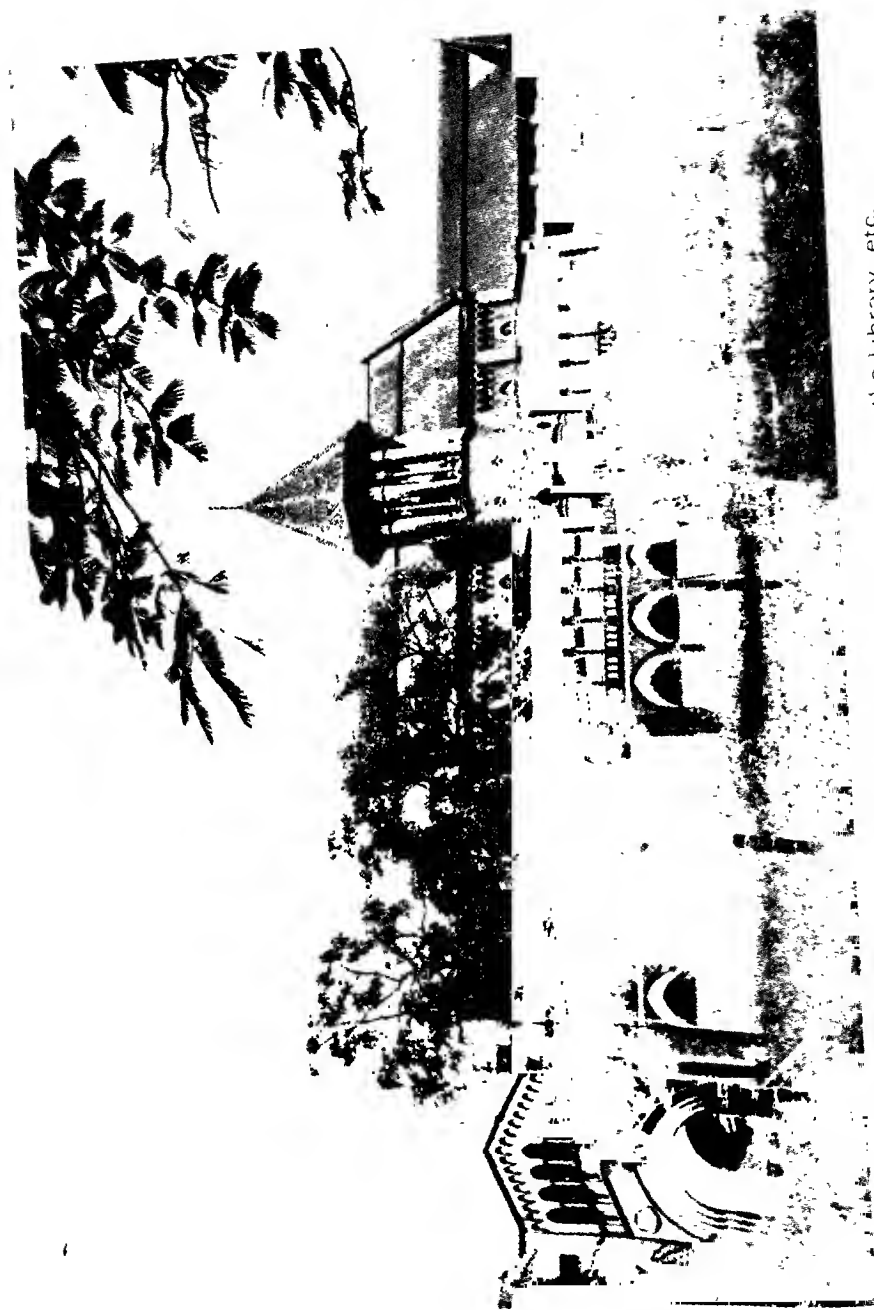
Smt. Moti Gauri Dhiraj Lal
Mother of Prof. H.D. Sankalia



‘Sachchidananda’, the personal house of Prof. Sankalia in the Deccan College campus.
In the foreground, Prof, Sankalia is seen sitting with his wife.



Sankalia with his wife, Smt. Sarala Devi, 1937.



The old building of the Deccan College, now housing the Library, etc.



Two young colleagues of Prof. Sankalia, Dr. R.K. Pant and Shri Sardari Lal, near a gravel deposit at Pahalgam, Kashmir, June, 1969. The team made the rare discovery of Palaeoliths.



The new building of the Department of Archaeology, Deccan College, Pune

In London

1. *London* 2. *Teaching Facilities* 3. *Richards* 4. *Dynastic Study of Monuments* 5. *Simla Interview* 6. *Dr. Mackay* 7. *Tour of Gujarat* 8. *Maiden Castle* 9. *Back Home* 10. *Married at last.*

I left for England in September 1934. My parents, Sarla and many of my relatives had come to see me off at the Ballard Pier (Bombay) where I boarded the ship. Naturally, I felt the wrench of separation and I wept a great deal. Instead of voyaging all the way round, I got down at *Marseilles* and went by the overland route to Calais and then over to Dover. An elderly friend who used to live in our building had advised me as well as his nephew who had left earlier to travel by the *de luxe* train. This both of us did but found on reaching London that it was considered a great luxury indulged in only by the very rich. Normally ordinary people, and particularly students, travelled third.

In London I had no difficulty at all because I had many friends there and one friend who lived in the same building in C. P. Tank, as ourselves, in Bombay had already booked a small apartment for me at 34, Norfolk Square, near Hyde Park. This was considered a good locality and the rent was comparatively high. I reached London in the evening on a Saturday. Next day being Sunday everything in London was closed. Either because there were thick

18 curtains in the room or because it was cold, when I woke up I found that it was 10 a.m. This was the first time in my life that I had emulated an Englishman who normally gets up late. I must be up betimes at 5 a.m. This has now advanced to 3 a.m. or so. However, all was well from the next day.

2

In London, at that time there was no institute of archacology, where teaching and training in all the branches of archaeology were given. I was formally admitted to the University College. Here, the Head of the Department was Professor Bernard Ashmole. He had specialized in Roman Archaeology. The Sumerian language was taught by Sydney Smith of the British Museum. For his lectures we had to go to King's College. A famous professor in the same college taught us Egyptology. Dr R. E. Mortimer Wheeler lectured on excavation at the London Museum, while K. de B. Codrington taught us muscology. Indian archacology was taught by F. J. Richards. He lectured at the School of Oriental Studies as well as guided students for the Ph. D. It was Richards' practice to meet his students at his home at Earl's Court. So I saw him once every week with the assignment he had given me and for future guidance.

After attending a few lectures in Sumerian and Egyptian archaeology, I found that I could not do justice to all the three subjects. For, unlike the practice in India, in London the teachers did not believe in giving formal lecture so much on the special subject they were supposed to teach, but discussed various topics each week informally recommending books to be read on the subject and prescribing an essay which had to be written. And no teacher would allow a student to attend his small, closed session unless this requirement was fulfilled. In a sense, this was the real Upanishadic method of teaching. No formal lectures, as of today, but per-

sonal discussion with the pupil was what they thought to be the best form of teaching. 19

Since Richards gave me each week a different topic to work on, it was not possible for me to fulfil also the requirements of Sidney Smith. So, after a couple of months, I gave up Sumerian and Egyptian studies, though my general interest in those subjects has remained still intact.

3

The weekly sessions with Richards were indeed a revelation; for they soon indicated to me what miracle a teacher could do for a student. Richards was a retired civil servant, having spent a major part of his career in south India. He had written several small papers besides the *Gazetteer of Wynad District* in Kerala. Not only did he gradually make me aware of the problems in Indian archaeology—historic as well as prehistoric—but made me take interest in the people—their names, habits, customs and castes, their professions as well as their culture, music, pottery, weaving, fishing and so on. Thus what I lacked most—geographical, geological, anthropological, and ethnographical background to archaeology—was provided by Richards. What use I made of this background knowledge may be easily noticed in my *Archaeology of Gujarat*, reviewing which the late Professor D. R. Bhandarkar said that I had given “a bird’s-eye view of all aspects of Gujarat’s history and culture”.

It was solely due to Richards that I began taking keen interest in places and personal names in inscriptions as well as the geographical factors in Indian history. The latter aspect was developed by the late Dr B. Subba Rao in his *Personality of India*. However, these aspects did not play a major role in shaping the history of India as I have shown in the second edition of my *Prehistory and Protohistory of India and Pakistan*.

In my first meeting with Richards I told him how I was fascinated by the discoveries at Harappa and Mohenjodaro, a full account of which has recently been published by Marshall in three magnificent volumes. So, he immediately put me on a detailed study of the reports by Hargreaves and Stein. This meant indexing, including drawing each and every design on a potsherd, with a brief description of the potsherds. After I had worked for months on this subject, came the news that Piggott had completed an integrated account of the subject and it would be published soon.

Thwarted in my ambition to do something new about the Indus Valley Civilization, I paid attention to the subject suggested by Codrington—the dynastic study of the medieval monuments. Again I prepared a card index for all the inscriptions listed dynasty-wise by Dr D.R. Bhandarkar and published as an appendix to the *Epigraphia Indica*. After finishing this, the question arose as to which particular dynasty or particular region should be selected. It was just by sheer chance that Gujarat came to be selected. And Gujarat was home-ground to me. After completing the epigraphical survey I turned to the archaeology of Gujarat and its neighbouring areas. This primarily meant an analytical and synthetical study of temple architecture and iconography.

5

About this time (April-May 1935), Dr Mortimer Wheeler, after completing the course of lectures on excavation, had taken us to Maiden Castle and other ancient sites. From one of these field trips one day I had returned at midnight and saw a telegram from India waiting for me. At first I could not make out its purport. For there were a number of “stops”. This was the first time I had seen a telegram with

no less than three “stops”. I wondered whether the Public Service Commission was inviting me to attend an interview for a post of Assistant Superintendent of Archaeology at Simla sometime in June or whether they had previously invited me for an interview which they were now withdrawing. Next day in the early morning I showed the telegram to my neighbour Bachubhai Merchant and other friends. They said that it was indeed a call for an interview at Simla.

This invitation, in the midst of my studies and training in England, put me in a great fix. Should I go to India leaving my training and my Ph. D. thesis incomplete? I consulted Richards, and he felt (not knowing that in all such cases there are Departmental candidates and very often the interview is held only to formalise a decision that has already been taken to select such candidates.) that that was a good opportunity for entering into the Archaeological Survey. Hence he advised me to go. So did my friends in London.

It was also decided that when I returned to India, I should make a field-study of the principal monuments of Gujarat and also undergo training at excavations then being conducted at Chanhudaro, if for some reason I was not selected. This plan was approved of by the university authorities almost immediately, permitting me to remain in India for the next two terms (October-March 1935-36).

This was my first experience of the Public Service Commission. Besides some general questions, the Director-General of Archaeology asked me whether I knew Kharoshthi which I had never studied. So, on my return from Simla, I spent several months learning this script besides continuing my study of temple architecture.

22 Chanhudaro on behalf of the Pennsylvania University Museum, USA. Richards had written to him to permit me to join him and have some training before I returned to England. Mackay agreed but asked me to bring along a tent with me for my stay. Fortunately, these things were easily available on hire at Karachi. So I took one to Nawabsaha from where it was transported on camel-back to Chanhudaro. However, to our great surprise and dismay, when the tent was pitched we found that it had no door flaps. These had been either not supplied or inadvertently left at Karachi. Temporarily, Mackay allowed me to stay in his guest-tent. But I had to vacate it and spend a few days in a partially open tent when Pandit Madho Sarup Vats paid us a visit.

It was then that I heard the discussion about the stratigraphical position of the famous Harappa sandstone torso found by Vats a few years earlier, which both Mackay and Marshall thought could not belong to the Indus Civilization. In the light of the subsequent criticism by Dr Wheeler about the stratification at Mohenjodaro and Harappa, this discussion appeared to be a debate between two ignorant persons. For neither Mackay nor Vats had done real stratigraphical excavations nor had they heard of three dimensional recording of finds. I do remember to have spoken about it to Mackay but he could not even dream of it, because like Marshall he and his assistants recorded "finds" with the help of a Dumpy Level placed at a fixed point. In fact, the way these excavations were being conducted—one overseer looking after a huge trench dug by a couple of hundred labourers—there was not much to be learnt. After I reached Chanhudaro Mackay explained to me the principle of "reversal" according to which the finds from the surface of the area around the mound might not be quite recent but might belong to earlier periods. For it is not improbable that these objects had been washed from the slopes of the mound and have been found lying on the surface!

Mackay also advised me to go to a potter in the nearby village to acquire some idea of his craft. I was then asked to join the pieces of a drain-pipe. While he was not in the field, Mackay would then prepare index cards for each antiquity. This gave me some idea of how to describe an antiquity and how very necessary it was to have a separate antiquity card for each find. Besides such activities there was nothing much to do in the field. This was in direct contrast to what Wheeler had taught us and what he afterwards taught the young and old archaeologists of Indian universities and of the Archaeological Survey of India. So, after spending some three weeks, I left Chanhudaro. On my way back I spent three days at Mohenjodaro which at that time was under the care of K.N. Puri.

Though I did not learn much, my trip to Sind gave me a first-hand idea of the region. As it happened, this turned out to be my first and last visit to Sind. Had I not gone to Sind I would not have been able to see the magnificent site of Mohenjodaro, and the smaller sites like Chanhudaro. I was not much fascinated by Mackay's methods nor by the training he gave. Mackay also thought that I was no good as a field-archaeologist and that I appeared indifferent to field-work. He even reported to that effect to the Public Service Commission when I again appeared for an interview after completing my Ph. D. in London. However, in retrospect and in fairness to Dr Mackay, I would say that while he was not quite wrong, he was also not wholly right. And this I think should be clearly understood. A young man's career is apt to be ruined and it is always advisable to hear what the candidate has to say when an adverse report is made about him by a referee. As far as my own career is concerned, my not being selected for a post in the Archaeological Survey of India was providential. For, had I been selected, probably I could never have had an opportunity to work all over India, publish reports as quickly as I had done and, above all, train more than

24 fifty students and thus remain always fresh and alert.

It was about this time (sometime in October 1934) that my father, worried as he always was about my delicate health, had on the advice of his friend, Bhimji, a solicitor, consulted an astrologer who possessed the *Bhṛigu Saṁhitā*. The difference between ordinary astrologers who cast horoscopes and then tell about the past and future of a person and these *saṁhitas* was that in these *saṁhitas* there are readymade case-histories of all the would-be consultants. These are found written in simple Sanskrit or in a variety of scripts—Tamil, Malayalam and Devanagari—on single sheets, called *pothis*. Since what I have seen are all on paper, none of these could be older than 400 to 500 years. While advising my father, Bhimji had also warned him to be mentally prepared to receive unpleasant predictions. So my father dropped the idea of taking Sarla (my future wife) with him. Instead, he invited one of my solicitor friends, Bhagvat Mehta.

After some preliminary enquiries, which are necessary to decide which particular horoscope should apply to the party concerned, the owner of the *saṁhitā* starts reading. In my case, it was found that when my father would go to consult the *Bhṛigu*, he would be accompanied by a close friend of mine and at that time I would be on the high seas. Then the *saṁhitā* opened my account with the statement that the person born in that conjunction would be an archaeologist—*sa yogo jīrnashodhakah*. Unfortunately, the sheet of paper on which my father had noted down all the important predictions, is now not available. The one he had sent to me I did not preserve. Hence it is not possible to say which particular predictions have come out right and which have gone wrong. Anyway this astrological prediction did not in any way affect my work either in England or in India. In fact, neither my father nor I believed much in these predictions. For my father had full and implicit faith in God and thus he would always be pre-

pared for all eventualities. He also believed in doing what we had undertaken to do, and not doing anything special suggested by this or that astrologer. Fortunately, Sarla also shared my attitude, so that when we built our house, no *muhurta*, that is, auspicious time, was selected for house construction. Nor was a Brahmin called, for no ceremony was performed at any stage.

7

However, three weeks stay in the dry, cold air of Sind had a salutary effect on my body and mind and I became confident that I could go alone to any part of India. As a result, I planned my own tour of the ancient sites in Northern Gujarat and Kathiawar. At that time, there were no hotels or buses there. So, one had to stay with friends in a city or a village and travel by a cart, or a hackney-carriage (*tonga*), or a private car. I went first to Mount Abu and from there to Siddhapur and Patan, and studied all the important temples mentioned by James Burgess. Then off I went to Junagadh, Girnar and Somnath. On the return journey I stopped at Rajkot with a view to going to Than. Here I was to be the guest of an ex-*dewan* of several states in Kathiawar. He had sent his secretary to receive me at the station who not finding me in the first or second class compartments had returned home. Meanwhile I hired a *tonga* and reached his house. The ex-*dewan* was certainly pleased to see me but was dissatisfied because he had expected me to travel in a class higher than the lowest, being his guest. So as long as I was his guest he made me travel second. The ex-*dewan* also advised me not to go to Dhank because it was supposed to be infested with dacoits. However, when I impressed upon him the necessity of visiting this out-of-the-way place so that I could study the rock-cut sculptures he relented but insisted that I should hire a private car. I paid Rs. 30 which was quite a fortune at that time to be invested for a jaunt. However, the purpose of my visit was more than fulfilled. My

26 studies showed that the sculptures here were not Buddhist but affiliated to Jain faith and probably sculpted in the Gupta period. I, therefore, wrote an article on the subject which was published in the *Journal of the Royal Asiatic Society*, London.

From Dhank I went to Junagadh. Here I was the guest of the ex-*dewan*'s friend who was a lawyer. On the day I reached his house he and his entire family had to go out to attend a marriage dinner. Thus I was passed on from one host to another. Here, to my great surprise, I found unboiled milk being served at dinner. We in cities had been brought up on boiled milk. At Junagadh I met accidentally Shri Shambhuprasad Desai who was then the *vahivaldar* (collector) of Junagadh. He took keen interest in my work, and the fact that I was travelling alone to study all these monuments aroused his admiration. As a typical Kathiawari, he told me that as long as I was in his State (that is, Junagadh), I was to be his guest, and that I would not be allowed to spend a farthing. Thus in his hospitable company I visited Somnath and other sites with great ease. During this tour, I took several photographs with my friend Bachubhai Merchant's camera—a Zeiss Ikon—for the first time in my life. I had never handled a camera before. To my great relief and joy I found that most of the photographs were good enough.

8

It was time for me to return to London and prepare the thesis. This I did, and also participated in the excavations at Maiden Castle. The training was brief, lasting just about a month or so but it was of immense importance to my future career. I learnt here, not only what was stratigraphical digging and drawing of a section and three-dimensional recording of finds (though the finds in my small trench were negligible), but was also made aware of the necessity of minute-to-minute supervision of the trench under one's charge for I was told that at any

moment the layer might change and this has to be noted as early as possible. Above all, it removed whatever compunction I had about manual labour. Wheeler disliked any participant who showed the slightest dislike for manual labour. In fact, when my Bengali colleague said that he had not gone to Maiden Castle to lift stones, he was advised to quit. For Maiden Castle excavation Wheeler engaged not more than two labourers. All the manual work was done by voluntary labour, by young students and retired persons. I also saw how Dr Wheeler invited the Press and the public to visit his excavations and help him in whatever way they could. Not only was the excavation at Maiden Castle a passport for me to conduct independent excavations in India, but it also showed me how an excavation could be organized without government help with limited funds and voluntary labour.

Returning from Maiden Castle I completed my thesis and submitted it to the university sometime early in December. The *viva* followed. I was to deliver a public lecture at the University College based on my thesis to be presided over by Dr. Stella Kramrisch, the well-known Indologist. We had advertised the lecture on the college notice-board but nobody turned up. There were several slides prepared by Professor Ashmole from my negatives. To my great surprise he showed the slides and he was the only person in the audience besides the President. At the end, Dr Kramrisch asked me several questions which I answered, I think, satisfactorily. The one particular question which I still remember at this distance of time (after 40 years) was about the comparison that I had made in my lecture (and also in my thesis) about the styles in the treatment of human, animal and geometric figures in different temples. Such a comparison alone, I said in my lecture, could bring out the regional peculiarity of each set of dynastic monuments. I have consistently followed this method in all my studies of historic, protohistoric and prehistoric archaeology. While no

28 final and definite conclusion can be reached from such a comparison, nevertheless it helps both the writer and the reader to get a view of the subject in a much broader perspective. I know that some scholars regard this as far-fetched but I find it a very rewarding and fascinating exercise.

While returning home I visited Louvre in Paris and the museum in Berlin and Munchen. In the Museum fur Volkerkunde in Berlin I saw a seated gold figure in *Ūrdhvamedhra*, exactly as in the figure of Lakuliṣa which became the theme of a small article I wrote for the *Indian Historical Quarterly*. What I admired most during my visits to these museums, was the willingness of the authorities to allow you to photograph the objects of art and to supply the required photographs at a pinch, a facility which we in India miss even today.

9

I landed in Bombay in January 1937. No job awaited me. Twice I appeared before the Public Service Commission, once in Delhi and the second time at Simla, but each time, though I was the best qualified candidate, I was placed third. This naturally disappointed me, my father and my uncle. They advised me to attend the courts with them because I had already taken the *sanad* in 1931.

But I abhorred the very idea. Instead, I resumed my habit of giving tuitions, giving honorary lectures to the B.A. and M.A. students at the St. Xavier's College and regularly visiting the Royal Asiatic Society of Bombay from 11 a.m. to 6 p.m. Here I revised my thesis for the press for which the London University had given a grant of £50. In addition, on the recommendation of my teacher, Sir V.T. Krishnamachari, the *dewan* of Baroda, gave Rs. 5,000 towards its publication.

While this routine work was going on, the

Prince of Wales Museum built a new epigraphical gallery. Here a number of stone inscriptions were exhibited for the first time. So Shri G.V. Acharya, the curator of the archaeological section, invited me to edit these. Thus I spent a great deal of time deciphering no less than eight Śilahāra inscriptions, and a large stone inscription of Mahamud Begada of Gujarat.

Palaeography and epigraphy cannot be mastered by reading either Bühler or Ojha. One must have an opportunity to read the original and if one is conscientious enough, hardworking and patient, one learns to decipher an inscription. The inscription of Mahamud Begada took me several months to decipher. It was like a cross-word puzzle. Some general knowledge about the subject one must have. The rest comes by patient and painstaking effort.

I also worked at the Indian Historical Research Institute, St. Xavier's College. Here I had already prepared a catalogue of the pottery excavated by Fr Heras from Vala in Saurashtra. Though I had indexed and copied all the pottery mentioned by Marshall, Mackay, Stein, and Hargreaves, this was the first time that I had an opportunity to handle pottery physically.

I also catalogued the large collection of Jaina images in stone and bronze. This also was an exciting piece of work. My models were the works of Professor Norman Brown and Dr Ananda K. Coomaraswamy. The catalogue was published with a short introduction in the *New Indian Antiquary* in its special *festschrift*. At this Institute I found some Kushana, Punchmarked, and tribal coins. I prepared casts of these coins and wrote on them in the *Numismatic Supplement*. Later this experience enabled me to tackle a large collection of Punch-marked coins which I had bought for a song from Nagari, near Chitor.

30 Thus, in all the traditional branches of historical archaeology, I had opportunities to gain some experience and also to make some original contribution, all without receiving any formal teaching. I learnt by efforts only.

At this time one Nathalal Shah brought to me a beautiful gold-leaf illustrated manuscript of *Bhaktārṇava Stotra*. This MS. was said to be in the possession of Jagat Sheth of Calcutta. Nathalal wanted to sell this—preferably abroad and wanted me to write about it so that it could be given publicity. I was thus introduced to miniature painting and wrote an article in the *Illustrated Weekly of India*, sometime in 1938.

Though I found no remunerative employment after my return from London in 1937, I was not “vegetating”, as some of my colleagues thought I did. I had utilized my time well in mastering architecture, sculpture and iconography besides acquiring a fairly good knowledge of the problems of epigraphy, palaeography, and numismatics.

However, my knowledge and experience were of no consequence to the members of the Public Service Commission in Bombay, who while interviewing me for the post of assistant professor said that my *forte* was archaeology and I was no good at teaching history. The Public Service Commission at Allahabad was indeed very much impressed by my work and experience but the U.P. Government deliberated for more than a year and ultimately appointed the late Dr V. S. Agrawala. And who would say that their choice was not right? Meanwhile, the Bombay Municipality had selected me for the post of the Curator of their Museum in the Victoria Gardens. But when they learnt that I had applied for better posts elsewhere, they withdrew the offer. Thus I continued to be without a job.

What possibly helped me to find a job in 1939 (according to the commonly held Indian belief) was my marriage in May 1938, nearly five and a half years after my engagement to Sarla in 1933. Though I was against celebrating it on a grand scale, I got married in one of the finest and choicest places in Bombay i.e. Madhav Bag, V. P. Road. This place was opposite to our old residence, Khakhar Building and I had witnessed many marriages taking place there but never dreamt or thought that I would be one day married there. This was on May 4, 1938. Next year I was appointed an examiner in matriculation examination—a work which fetched me Rs. 300 or so. Hence I thought of visiting Kashmir with my wife with the small sum of money that I had earned. Holiday return tickets were then available for a single fare only and I bought two tickets.

On our way at Lahore station I bought a copy of the *Civil and Military Gazette*. In the advertisement columns I found that the Deccan College Postgraduate and Research Institute had advertised for teaching posts. So on reaching Srinagar, I wrote to my father to get me an application form. I think I also wrote to the Deccan College. The form was duly received and I posted the application from Pahlgam. I did not know then that at Pahlgam after a few years I would discover Stone Age tools.

A curious incident happened at Srinagar. We were staying in a Sikh hotel overlooking one of the Bridges. One day a tall, old man, dressed like a *sanyāsī*, came and asked for Rs. 25. This was too large a sum of money to be given away at that time or even now. So, I expressed my inability to meet with his request. He did not get angry. On the contrary he left saying that very soon I would get a post carrying a salary of Rs. 400 per month.

I had completely forgotten this incident but recalled it when I found that the post at Pune for which I was selected carried a fixed salary of Rs. 400 *per mensem*. So when I got the job I enquired about that astrologer-cum-beggar at Srinagar, but the manager, who had become our friend by that time, informed me that he had never seen that man again. This small incident is of some significance because the salary offered at the Deccan College was quite unusual. Normally Class I posts at that time were in the grade of Rs. 300-25-350—Rs. 630, but I was given a start of Rs. 400.

After returning to Bombay, I was first interviewed for the post of an Assistant Professor in history by the Public Service Commission. I have already referred to the result of the interview. My major hope was, therefore, the post of Professor of Proto-Indian and Ancient Indian History at the Deccan College at Poona, now renamed as Pune. Initially it was for a period of eight months only, after which there was to be a fresh selection. Moreover, it was doubtful if a Gujarati would be selected in this stronghold of Maharashtrians. More important was the fact that Dr B. A. Salator was one among the candidates to be interviewed. He was already a professor and he had, I learnt afterwards, a hand in the drafting of the Constitution of the Deccan College.

However, I was full of confidence when I found that the Committee consisted of Dr D. R. Gadgil, Prof D.V. Potdar, Prof Karmarkar and Prof P.V. Kane, and possibly Prof R.P. Patwardhan. Except Kane, I had not known anybody, and saw them for the first time when I went to the interview. Between Salator and myself, their choice naturally fell on me because my experience and qualifications suited the post of Prof of Proto-Indian History. Dr Salator was a specialist in Mediaeval Indian History. Secondly, as I learnt later from both Kane and Potdar that the Board was impressed by the fact that I had some

The Committee asked me if I would accept Readership, if it was decided to institute a Professorship only either in Mediaeval or Maratha History. I flatly refused. But within a few days the appointment letter for the post of a Professor came from the Deccan College. The fact that the appointment was for eight months made me and my father a little apprehensive. Why not wait for the post of Curator in the Prince of Wales Museum in Bombay which carried a higher salary?

When we were in this dilemma, Fr. Heras gave me a clear and decisive advice. He said that, though the post at Pune was of a temporary nature I need not worry. Once I was there, I was bound to do good work and nobody would think of driving me out. Secondly, at Pune I would "live"; while in a museum one was likely to become a "fossil" with fewer opportunities of coming into contact with young students. The advice turned out to be fully right as my subsequent career unfolded. So, on August 17 I left Bombay by the first train and reached Pune at about 12 noon. At that time one could hire a *tonga* (hackney carriage) for the whole day. For a rupee and a half I hired one and entered the vast portals of the Deccan College with its magnificent Gothic towers.

Three

Deccan College

*1. Deccan College 2. Dr Katre 3. First Pupils
4. Discovery of Megaliths 5. K. N. Dikshit
6. Gujarat Expedition 7. Food Problem 8. Miraculous Cure 9. Sarla Joins us 10. Chatterjee and Krishnaswami.*

AT the Deccan College I met Dr S.M. Katre, Dr Iravati Karve, C.R. Sankaran, Chand Shaikh, Dr R.G. Harshe, Kanitkar, T.S. Shejwalkar for the first time. Except Dr Katre I did not correspond with any of them earlier. Next day, or perhaps the same day, Dr V.M. Apte joined us. He acted as the Director just for one day because it was said that he belonged to Class II in the Bombay Government Service and, hence, could not be appointed as a Director. The actual reason was never known, nor did any of us care to know. However, his not remaining the Director was indeed providential. For, had Dr Apte continued as the Director, I am sure, we would all have been strangulated, head and foot, by rules and regulations and the world would never have witnessed the flowering of a young institution as a centre of research and learning.

All of us, excepting Shejwalkar, were fairly young who had never seen the seamy side of life. Above all, we were devoted to research in our chosen fields. We were all, therefore, thankful to God for the opportunity He had given us, though we knew in

contrast to conditions prevailing elsewhere in the universities, our salary was not only modest but fixed without the benefit of pension, provident fund or gratuity. A very modest provident fund was given to us later. However, the pecuniary loss was more than compensated by the immense possibilities that we had for putting our plans for work in practice. Originally we were all supposed to do some field research, but owing to the war-time condition in 1941 Dr Katre and Sankaran were obliged to give up their plans of work in the Nilgiris. The former then planned to compile the *Dictionary of Inscriptional Sanskrit* and the latter paid attention to Instrumental phonetics. And thus only Dr Iravati Karve and myself were left in the field. How each one of us developed is by now well-known.

2

Our first Director, Dr I. J. S. Taraporewala, and also Dr Katre, our Director from 1942 to 1970, allowed freedom to each one of us to plan and execute our schemes. Naturally while doing our tasks each one of us would establish independent contacts with scholars, institutions as well as patrons of learning in India and outside. If due to these contacts with persons and institutions funds were made available for our individual or departmental schemes, Dr Katre never objected. He never insisted that he should be consulted first. In the same way, he did not think that we should confine our work to the four corners of Maharashtra or to this or that subject. Neither did he nor any of us feel that students outside Maharashtra should not be given scholarship or sizarship if the students deserved it. Non-interference in the work of others, faith in the competence of the individual as well as complete freedom to plan and execute one's scheme of research within the means at our disposal were mainly responsible for the rapid development of the Deccan College.

I should like to mention an instance of how Dr Katre took a very sympathetic view of my situation, so that I was not put to unnecessary loss and hardship. In 1947-48 my landlord harassed us so much that my wife and I had to leave immediately for Bombay locking our house on the Jungli Maharaj Road until some alternate accommodation was available in Pune. I, therefore, went to Bombay and worked in the Asiatic Society. All those days I was not at Pune were not counted as leave but as "on duty". Where on earth do we find a Director who had so much of understanding? Of course, none of us, excepting Shejwalkar misused this trust and confidence placed in us. Though he was a great scholar, extremely well-read and well-informed, he would not write or even dictate what he knew and thought. Thus he did not fulfil one-tenth of the promise he made every year. Consequently his services had to be discontinued and it was left to me to refuse him extension after he was superannuated. Of course, Dr. Katre could never have taken this most unpleasant step, because his motto in life was *to live and let live*. With all his good qualities Shejwalkar was a misanthrope and would therefore always over emphasize the darker side of a man.

Dr Katre had another rare quality. He loved good printing and had spent sometime in learning the various aspects of this art. Not only did he love printing, but also took great delight in printing our research papers as well as of others with meticulous care. How he did this within the small publication grant that we had, I had never cared to enquire till I became the Director in 1970. It is because of his initiative that a large number of publications which the Deccan College has to its credit today was made possible particularly its several well-illustrated monographs on archaeological subjects. I can say that throughout my stay at the Deccan College I have always felt that it is not the rules and regulations that go to make an institution great. What makes it expand is the trust and confidence the

head of the institute places in his fellow-workers and, above all, sympathy and a desire to help them and not to hinder their work.

3

Long before I joined the Deccan College, I had planned to reconstruct the history of India by a study of the Puranas and also of Sanskrit literature testing my conclusions in the light of archaeology. My teaching career started with a couple of students who came to me within a week of my joining the institute for the Ph.D. The subjects were ready at hand. Whom to select for which branch of study would depend naturally upon the students' aptitude and background. To A.V. Naik I suggested "Archaeology of the Deccan." To D.R. Patil was given the "Cultural History in the Vāyu Purāṇa". Both of them did excellently well. Before Patil began the study of the *Vāyu Purāṇa*, I asked him to study the Gupta inscriptions and collect all the allusions to the puranic stories. Such a study would give us a firm foundation for dating that much portion at least in the various Puranas. Naik had no difficulty, as he would often tell me. A model was set before him by my *Archaeology of Gujarat*. Not only did he follow my model but made a study of many more monuments which he came across in his field-work for which we gave research grants to students. But before he undertook this work I had taken him and other students during the *Diwali* holidays to the Prince of Wales Museum in Bombay and taught them the elements of iconography. Later, they were taken to the caves at Karla, Bhaja, and Junnar. At Junnar they were taught how to take impressions of stone inscriptions. All these I called as "Study Tours". During these tours we had to pay for our own expenses—food as well as travelling—from our own pockets. Later, similar but more extensive tours were undertaken in the Nizam's Dominions. Thus, before 1941, my students and I had first-hand acquaintance with all the important monuments of the Satavahanas, the

- 38 Chalukyas, the Rastrakutas, the Yadavas and their contemporaries in Andhra Pradesh, Karnataka, Maharashtra, and Tamil Nadu.

For my own research I first began by studying the *Poona Gazetteer*, studying side by side the inscriptions of the Gurjara-Pratiharas with a view to undertaking a tour in search of their monuments and studying them as well as I could. These were barely known. The late Professor D.R. Bhandarkar had noticed a few of them when he was the Superintendent of the Western Circle in the Archaeological Survey of India. So when I consulted him, he wrote to me that I would have to rough out, meaning thereby that I would have to go from place to place in Rajasthan to locate them. Naturally adequate groundwork must precede before undertaking such a study.

4

Meanwhile an intensive study of the *Poona Gazetteer* revealed that there was a ruined temple, perhaps of the Yadava Period, in the jungle at Pur, at a distance of some eight to ten miles from Junnar, the nearest village. And at Bhavsari some eight miles from Pune on the Pune-Nasik road, are to be found megalithic stone-circles. Though I had no occasion to study or see the true south Indian megaliths, this brief reference struck me as worthy of investigation. So, early in November, Naik, Patil and I went to Bhavsari, and made detailed enquiries, as I was taught to do by Richards—a line of enquiry which is further explained in *Notes and Queries in Anthropology*—a guidebook published by the Anthropological Institute of London. Later the monuments were fully surveyed and a report in the form of a paper was published in the bulletin of the Deccan College.

As I have pointed out elsewhere, these are not true megaliths of the south Indian type, but only memorial stones erected in memory of the dead but exactly modelled after typical megalithic structures

such as menhirs, dolmens and stone alignments. I was sorry to find that there was no scope for excavation, as these monuments rose right from the rock surface, and there were no debris or other constructional features which we could study to ascertain the dates of these monuments.

It is a pity that pseudo-archaeologists not knowing what actually obtains at Bhavsari have criticised me for not carrying out excavations there and other adjacent sites. Though the Bhavsari monuments are not true megaliths, those from Western Maharashtra do indicate the influence of the monuments of Karnataka which are true megaliths. Excellent proof has recently been obtained at Pimpalsuti, near Inamgaon, and other places in the Pune district.

The exploration at Pur was far from easy. We went to Junnar by an old Ford car, no other conveyance being available then. But when we proceeded and reached Rajur, we found that there was not even a cart track and the region being hilly, a cross-country drive was out of question. So we left the car at Rajur and decided to walk upto Nanaghāt in one day and returned after a strenuous walk of some sixteen miles. Since we had left our beddings at Junnar, we slept on the bare ground in our field-clothes enjoying the hospitality of a villager. Next day, we went to Pur. The temple was located in the heart of the jungle—a good and true specimen of Yadava art and architecture. Naturally a fully documented article was published in our *Bulletin*.

5

These small discoveries, at and near Pune, opened the eyes of the then Director General of Archaeology, Rao Bahadur K.N. Dikshit. He was convinced that not only was I capable of writing a thesis based on published material, but I could discover new finds as well and also undergo strenuous and hazard-

40 ous exploration. In fact, he asked his Superintendent at Pune why these had not been noticed by him during the years of his tenure. It would not be an exaggeration if I pun on the word 'Bhavsari' like the old Sanskrit poets and say that my *bhava* (life, career) was made smooth (*sara*) by Bhavsari. Soon after Rao Bahadur Dikshit who had once spurned and ridiculed my offer to undertake exploration in Sind, (since I knew the area) sent for me on his next visit to Pune in August or September, 1940. What had happened earlier needs a brief narration. In June or July that year he had given a lecture on the Indus Civilization at the Bhandarkar Oriental Research Institute and said that the Survey was compelled to abandon any further exploration in Sind because N.G. Majumdar was brutally murdered in cold blood in the Dadu district. Next morning, I went to see off Dikshit at the railway station who was leaving by the "Deccan Queen." I expressed my willingness to continue the work left unfinished by the late Majumdar. He told me that I should mind my own business.

When I went to his office at Sangam in Pune, he asked me if I had read *Notes* by Bruce Foote and whether I was aware of the problem he had raised about the hiatus between the palaeolithic and neolithic finds in Gujarat. I told him that not only had I seen the book but had also made extensive notes and prepared a map showing all the sites mentioned by Foote. He then said, "Who asked you to do all this?" "Richards", I replied. He then asked me whether I would be prepared to lead an expedition to Gujarat with a view to solving the problem raised by Foote. "I am perfectly willing", I said, "but I should be assisted by a geologist, a palaeontologist and a surveyor draftsman." He promised to send them and asked me to get ready.

Though I had made notes from Foote's book and had also probably seen a few palaeolithic sites in England, I had never studied prehistory nor

handled palaeolithic, microlithic and neolithic finds. But when the Deccan College was shifted to the Jeejibhoy Castle, the late Dr Iravati Karve asked me to teach European prehistory. At that time she was the only "recognised teacher" in sociology and therefore she was required to teach all the four or eight papers in this subject. For a single teacher, this was certainly a burden. So one day she placed in my hands G.G. MacCurdy's *Human Origins* so that I could teach prehistory and share some of her burden. These volumes, though published in 1923 were excellent for an introduction to European prehistory. Even now, after fifty-five years, I would still recommend his book to a novice. MacCurdy has explained very systematically with necessary illustrations all about the Ice Age as well as the various sites and the development of the Stone Age which a beginner should know.

So I began to study his book systematically, preparing drawings and charts for my sociology students. I found that this was not enough. The lectures on prehistory, if they are to be properly understood, have to be illustrated. So with the help of the photo-registry office, I got 35 mm films made of the entire book as well as Marshall's *Indus Civilization* and De Terra and Paterson's *Ice Age and Associated Human Remains*. The last book had then just been published. It made a very heavy reading, particularly for a non-specialist like me. But I had developed a method of reading by which even a most difficult book could be mastered. So, when V. D. Krishnaswamy joined me and discussed with me the plans about our expedition, I had all the book-knowledge one could have. I had never seen a river section in the field nor had handled a palaeolithic find. Nor had I any occasion to consult one-inch-to-mile survey maps. Fortunately, Prof R.P. Patwardhan, who was asked to organize the library just before the Deccan College started the Research Institute, had purchased all the one-inch maps then available. These came in very handy for planning

Rao Bahadur Dikshit had appointed, as desired by me, two experts—one was Krishnaswamy a geologist and the other was Dr B. K. Chatterjee, a palaeontologist. Then there was a young draftsman-surveyor, besides the official photographer, Devi Dayal and Sadardin, the peon. The team was to be assisted by A.S. Gadre, who was then the Assistant Director of Archaeology, Baroda State. He was supposed to make arrangements for our accommodation and also to arrange labourers to do the digging while we were in his jurisdiction.

6

As the leader of the expedition I had to arrange all those equipments that we would require in the field—tools (pickaxes, hammers and knives), packing boxes and several kinds of bags for collection and storage of finds, various kinds of labels and stationery. Bags and containers that I had purchased could be easily packed in “camel-back” trunks. These were the legacies of the First World War which my brother-in-law, Major Dr K.V. Tolat had preserved, and which he gave me as soon as he knew of my predicament. He also offered me his military jackets which had four large pockets, a khaki coat with large brass buttons, breaches and *puttee*. Of course, all these had to be altered because these were now to be worn by a person whose weight was just 90 lbs., whereas the person for whom these were bought originally should have weighed at least 140 lbs.

When I donned my uniform, Krishnaswami, who seemed to take fancy to formal dress, said, “Now you look like a real leader.” It is indeed unfortunate that we have given up such formidable but useful clothes, because one appeared “over-dressed”, as Zeuner remarked when he first saw me in my military garb. Be that as it may, I could keep a pocket diary, purse, camera stand (folding) and all

inside those capacious pockets. The breeches again enabled me to walk, run, climb and squat anywhere I liked without any difficulty. The narrow drainpipe—now out of fashion—or the wide bell-bottom trousers—now in vogue—cannot have those advantages. In fact, these are a positive nuisance in any kind of expedition, so also shirts with small pockets. I have seen boys and girls cutting sorry figures with their drainpipes in our Kerala tour of 1974 or the Malvan exploration, near Surat, in March 1975.

Particularly difficult was the problem of food. We would be far away from any habitation and could not, therefore, think of any hotel or any other place where we could have our food. We had to be self-sufficient and be prepared for all eventualities as in the army. Rao Bahadur Dikshit had little idea of this. For him as well as the officers of the Archaeological Survey, there would be special officers who would take charge of all the camp equipment. So he repeatedly sent me telegrams as to when I would go to the field, and was so impatient that he ordered the rest of the party to assemble at Vijapur, the *Taluka* headquarters in North Gujarat. Though I had personally purchased with my own funds all the equipment and had arranged the kinds of bags and stationery that we would require, according to the advice given by Krishnaswamy, my difficulty was that I had no cook of my own at the Deccan College. I wondered who would cook for such a large party while in the field, if I did not take one along with me from Pune or Bombay. In the excavations organized by the Survey, I found that there was no common kitchen. Each one of the officers looks after himself aided by a servant. I was not used to this luxury, nor could I think of it. In our camps at Gujarat and later at other places all of us, irrespective of our status, we shared the same food and paid for the food in proportion to our salary or allowance. Thus there was true socialism in our camp. Since no peon of the Deccan College was willing to go with me to Gujarat, my father lent me

44 our family servant from Bombay. But the cook had to be hired.

7

These small details, otherwise insignificant, have been mentioned because it was for the first time that so many people, from different parts of India, were brought together, under one head, who himself not being a Government officer, had to organize an expedition besides taking care of academic and scientific work and other personal needs. I had fortunately thought of all our needs including such small details as containers for storing oil, ghee and milk as well as tiffin-carriers for carrying our lunch on the field, hurricane lanterns and all.

Food, however, remained the problem. Our cook was a Gujarati whereas in our party there were a south Indian, a Bengali, one Pathan, one Kathiawadi and two Maharashtrians and two more from Uttar Pradesh. It was impossible to satisfy the miscellaneous tastes of all. Those from U.P. were accustomed to eating food cooked in *ghee*, whereas the south Indian preferred liquid food, and the Bengali would want his pound of fish. On the very first day, December 7, not satisfied with the food, some members wanted me to chuck out the cook. I flatly refused. There was a minor mutiny. But I stuck though there was danger of losing an expert. I was prepared to bear his loss but not that of the cook. Without him we would not be able to move an inch on the banks of the Sabarmati and our expedition would be a total failure.

8

My firmness paid and next day we visited the classic site of Hirpura and made a few discoveries of flakes in the cemented gravel. I duly reported this, mentioning the names of the finders to Rao Bahadur Dikshit. I had taken my own portable typewriter

on which I would write the daily reports. At Hirpura we also discovered a few microliths on a sandy mound. Hence it was carefully dug under my personal supervision. Then the party moved on to Pedhamli. Unfortunately, during the night I had a severe attack of diarrhoea, which for some reason or other would not abate and so I was left alone in the school-room where we had been staying. Unfortunately I did not have any medicine and the village had no doctor. Only a miracle cured me. The village headman knew of a *vaidya*-cum-masseur. He was summoned. He passed his palm over my abdomen and said that nothing was wrong with me except that there was some glandular displacement because of working up and down the river-side which could be cured by a little massage ! And so he did ! He then said that after this massage I should take *shira* (wheat flour mixed with sugar and cooked in *ghee*). Not only did this strange treatment cure me, but gave me strength enough to walk up to Pedhamli, a distance of a few miles from Hirapur and join the party there. Here a large collection of handaxes, cleavers and other tools had been made in Luhar Nala and other localities. And with this vast collection I gloriously walked back to Vijapur.

Meanwhile our party faced another obstacle in our field-work. Since there were no metalled roads but only tracks, and that too on a sandy surface, it was not possible to engage a vehicle—neither a bus nor a truck or even a hackney carriage, *tonga* would be willing to take us. Our photographer, who had never before participated in such a field-work and was used to “still” photography only, insisted that we must engage *tongas* to reach our haven. He said that no commander could ignore the wishes of his army, and quoted some incidents from the life of Napoleon Bonaparte. So we gave his suggestion a try but found it so time-consuming and inconvenient, that we had to give it up at last. Thus we were left to walking leaving our camp at 7 a.m. with lunch packed in tiffin-carriers and

46 return sometime in the evening. This meant walking daily a distance of 15 to 20 miles. And then we and the Government experts and appointees learnt that the daily allowance would go up if the distance covered was 'more than 20 miles. The allowance was ridiculously low—the experts getting just a rupee and the attendants two annas per day. This was hardly sufficient to meet the cost of two square meals a day including a cup of tea. Somehow we managed, because we ran our mess on a socialist basis, I paying the maximum.

9

After my short, but severe, illness my wife joined the expedition. She participated in all our explorations, walking with her sandals on stones and sands miles on end. Naturally when she discovered anything—a palaeolith or a microlith—I included her name in my weekly reports. To this Rao Bahadur objected saying that she was not an official member of the expedition. However, when both Krishnaswamy and Chatterjee had gone to Delhi to attend the interview of the post of Assistant Superintendent of prehistory, and Gadre was engaged on one mound, my wife was the only assistant and collaborator on the main Andharion mound at Langhanj. What we found we noted carefully and packed it up separately trying it neatly with a thread, rubber bands being then unknown. And I must say Sarla had an eye for locating the microliths. Usually it was from the rat-holes that she ferreted out these tiny tools.

10

The atmosphere in our camp completely changed when Chatterjee and Krishnaswamy rejoined me at Ahmedabad. They alleged that they were badly treated, when they were in Delhi. To the Director-General of Archaeology, their knowledge of prehistory was of no use. He wanted a person well-versed in the Indus Civilisation and so K.N. Puri,

who was already in the Department was selected. Both Chatterjee and Krishnaswami felt that they had been let down by Dikshit. By offering them these temporary appointments of prehistorians, he had raised false hopes in their minds. On reaching Ahmedabad they said that they would leave the expedition. I requested them not to do so and wanted them to complete the remaining part of the expedition, namely the survey of the Orsang and Hiran at Bahadurpur in Central Gujarat.

I must say that Krishnaswami was very helpful. He had helped me in planning at Pune and co-operated excellently in planning the day-to-day surveys by studying the survey maps. And it was his planning that had helped us finally to go to Hadol in the upper reaches of the Sabarmati. But he refused to co-operate with us any further after his debacle in the Delhi interview. This certainly came as a shock to me because he was the most experienced prehistorian of our team. He had previously worked with De Terra and Paterson and also had his training under Burkitt at Cambridge. Chatterjee was of little use. When I asked him to give me his field-notes he promptly gave me a blank note-book: Under the circumstances, the question of preparing the report could not be entertained and all the finds had to be transported to Delhi without our valuation.

Experience of Prehistory

1. *Becoming a Prehistorian* 2. *Godavari Survey*
3. *Microlithic Man* 4. *Kolhapur* 5. *Langhnaj Again*
6. *Deshpande and Subbarao* 7. *Nasik*
8. *Deccan College: Home of Early Man* 9. *Dr Deo and Dr Ansari*
10. *Nevasa* 11. *Testing of Puranic Legends*
12. *Maheshwar and Maratha Architecture* 13. *Nathadvara: Rajasthan prehistory.*

HOWEVER, on returning to Pune I recovered my confidence, and requested Rao Bahadur Dikshit to send the finds so that I could start working on them. This he did promptly. Though it was Summer vacation I used to go to the Institute at 8 a.m. and worked there till noon. Side by side I updated my knowledge by consulting all the latest books on European prehistory we had at Pune. Then I went to Madras and studied the entire Foote collection of microliths, palaeoliths and potsherds from all over south India. I also wanted to go to Calcutta, but it was in the throes of war, as the Japanese had invaded Burma. They were then actually on the frontiers of India. Intensive study made me a prehistorian. What I produced at the end of two years, in 1944, is well-known. Burkitt reviewing it in *Nature* called the book "excellent". Prof. Zeuner felt that the work I did was very creditable. He told me this in 1948 or thereabout when one day we were reviewing our work sitting on the bank of the Sabarmati. Had Krishnaswami remained with me, I really

doubt, if this self development could have been possible for he knew his subject well enough, and naturally it was expected that he would write on the palaeolithic collection, whereas I was expected to devote my attention to the excavated material.

2

When we review the work done in prehistory and protohistory during the last twenty-five years in India, who would deny that I was not instrumental in playing an important role? Mind you, I had no hand, either direct or indirect, in disqualifying either Chatterjee or Krishnaswami. Later when Krishnaswami was appointed the prehistorian in the Survey, somehow he was not allowed to do what he was most fit to do and was shifted to the General line. Anyway, while preparing the report on our Gujarat Expedition, I thoroughly acquainted myself with all the geological reports besides works on European, African and Asiatic prehistory. In one old report I read that large animal fossils had been found at Nandur Madhmesliwar on the Godavari. And I thought to myself if I should not examine this site. So I went with Patil and stayed in a friend's house at Niphad.

Here for the first time I saw a fairly high section in Maharashtra rivers but it was nothing compared to that on the Sabarmati or the Mahi. Moreover, the boulder or pebble conglomerates were missing. However, we did find a few smaller tools made of chert and jasper in a gravel layer. And thus was laid the foundation of the Middle Palaeolithic. Of course, immediately I did not know their real significance. In fact, we were disappointed in not finding large tools—palaeoliths—as in Gujarat. Even this small work was noticed in *Nature*.

Thus from one river valley to another, I went on gathering artefacts. And the Man who had rejected me thrice said that he did not know that I was capable of such hard work and planning my work

50 independently! It may be of interest to note that while many scholars in India and abroad have appreciated both these aspects of my work at the Deccan College, a few have regarded this as nothing but donkey's work. But I may tell them that systematic planning, followed by hard work alone leads to success in any discipline and much more so in archaeology which entails the labour of sifting, collecting, and discovering of material things.

3

Dikshit had no plan of continuing the work in Gujarat. According to him, we had confirmed the existence of a hiatus between the Palaeolithic and the Neolithic in Gujarat. But in any scientific investigation—as also in criminology—one thing leads to another. Particularly this is true of archaeology. So far we had not thought of Man, the author of the palaeoliths and microliths. I discovered him at Langhnaj in an interesting accident. My room in the Jeejeebhoy Castle and later at the Deccan College was always filled with the finds, since I always worked on them when I was not lecturing or doing any other work. On my table at the Jeejeebhoy Castle lay trays of assorted bones from the Langhnaj excavation. The late Dr Karve who took a keen interest in my work would often step into my room to see these bones. Sometime in 1943, while cursorily examining these assorted bones—which I thought were all of animals—she picked up a fragment of a bone and said that the fragment must be of a human skull. Trained as she was by a famous human palaeontologist she got excited. For here was a chance, she said, of finding the Stone Age Man—may be microlithic or mesolithic—but certainly the earliest man in India.

This led to our second Gujarat expedition organised specifically to find out the microlithic Man in Gujarat. Its members were mainly two—Dr Iravati Karve and myself. Rao Bahadur Dikshit had lent

the services of his foreman, Sadar Din. The expedition was financed by a grant from the University of Bombay. We left for Langhnaj as soon as I completed the report on the first expedition and forwarded it to Rao Bahadur Dikshit. The results are now well known. Subsequently we continued the work for years.

The first human skeleton of the Stone Age Man was discovered on February 28, 1944. Iravati Karve was so much pleased that she thought of celebrating the occasion by offering me a glass of lemon juice. This did not agree with me not being accustomed to cold drinks even on a very hot day. Next day, I felt sick and had an attack of diarrhoea and I was completely run down. And though vomiting stopped, the diarrhoea continued. With great difficulty we reached Pune. The weakness in my legs too continued for months. And I wondered whether I would be able to do any field-work at all. However, a course of emetine injections restored my health.

4

The lure of Langhnaj once again spurred Dr Karve and me to work further with still more spectacular results. Normally, I should have continued to work in prehistory alone. But my general interest in all aspects of history and the news that I was a mascot—lucky to find the earliest human skeletons—had reached Kolhapur through Dr Karve and the late Dr D.R. Gadgil who was her neighbour. Secondly, scholars as well as laymen were anxious that I should do some work—excavation—in Maharashtra. And why not try at Kolhapur if the State was willing to help financially? Just then, accidentally, a local archaeologist, the late Professor Kundangar, had found one of the richest hoards of bronzes in India on the banks of the Panchganga.

I welcomed the opportunity, and asked my colleague Dr M. C. Chhabra, the Curator of Satara



52 Collection, to join me. Though we began our operation with some fanfare we soon realized that we were really not wanted there. In spite of impediments we continued for more than three months, though at the end we had to return to Pune without the finds because the local archaeologist said that only a few finds could be sent along with us! How can one who is used to writing a full report agree to this absurd condition ?

However, this excavation gave me an excellent experience of stratification which I missed at Langhnaj. Besides the various occupation layers I could find that one of the top-most layers was formed when this part of the city was submerged by the Panchganga. My inference very much surprised Rao Bahadur Dikshit who had come to see our excavation. He was, however, convinced when he saw how the layer tapered off towards the city, and that it contained nothing but washed out material and consisted of reddish sticky clay.

This was again a large excavation which yielded many kinds of finds. All these had to be registered, sorted out, and arranged datewise. Since we had no other assistants, these had to be done by Dikshit and myself. I had also undertaken to clean the coins as and when they were found just to acquaint ourselves with the probable dates of the layers that we were digging. Besides, a large stratigraphical excavation gave us a good idea of the pottery of various historical phases—a knowledge indispensable for recognising true prehistoric pottery.

In spite of the opposition from local scholars, we had organized an exhibition of the finds at the close of the excavation. For, I always believed that a work of this kind is not undertaken to win laurels or for writing academic reports, but for educating the public about past,

Back from Kolliapur, I had to organise a bigger expedition to Gujarat. It was organised with the funds given by the Sir Dorabjee and Lady Ratan Tata Trusts in response to an appeal issued by Rao Bahadur Dikshit. Our main aim was to discover the layer or layers below which the human skeletons laid buried at Langhnaj. We had been unable to discover this in 1944 and 1945, a fact which had very much disconcerted Dr Mortimer Wheeler, who had then taken over as the Director-General of Archaeology in India. Being my former teacher, he knew that I should not be condemned outright but expressed surprise that we could not trace the pit-line and thus ascertain the true stratigraphical position of the human skeleton.

In this expedition we were not alone. To assist us came, besides Shaikh (Z.D. Ansari), who had joined me as a photographer in 1945 at Kolliapur, Subbarao, who had worked with Wheeler at Harappa, and Shekhar, who had worked at Arikamedu. Thus a strong team of youngmen, had once again landed at Langhnaj.

Just towards the end, before Wheeler arrived to inspect our work, Shekhar had devised a very ingenious method of ascertaining the layer in sandy medium. Wheeler came and with his methodical care and skill shaved the section for more than two hours but was unable to discern any pit line. Then Shekhar placed a piece of paper at the foot of the section, and very carefully and slowly went on scraping the section, noting at the same time the change in the colour of the sandy soil falling on the paper. By this method, at least, a sub-division or two could be discerned below three feet of the brownish silt. On seeing the results, Wheeler immediately complimented us, and said that he had learnt something new about stratification. And then he advised us to dig at Langhnaj according to this

54 method of stratification. We found that was not possible. So he advised us to write to Professor Zeuner. Thus begun a new phase in Indian Archaeology and my training, in particular in the environment of Man. So once again we went to Gujarat. This time Zeuner taught me something about the red; weathering and dry and wet phases. It was Zeuner who had first identified the large teeth of the rhinoceros at Langhnaj, an identification which he later confirmed by studying the shoulder blade. But the hydrochloric acid test by which he had first indicated a wet phase at Langhnaj, he later rejected. Now this season Dr G.G. Mujumdar is making one more attempt to differentiate between the layers by chemical analysis of the sandy soil.

6

Since nothing more could be done at Langhnaj, I stopped going to Gujarat. But soon my attention was drawn to Nasik where a few potsherds had been discovered by M.N. Deshpande, my former pupil who was then the Assistant Superintendent in the Survey.

Deshpande's case is worth narrating. He had enrolled himself under me for Ph.D. in Jainology. I had suggested him this subject because he had obtained a first class in B.A. in ardhamagadhi. Just then Wheeler had started his training school at Taxila, I advised Deshpande to go and attend the school. I also called him to my house on Jangli Maharaj Road, and gave him some idea of stratification and warned him particularly never to shirk any manual labour, because Wheeler was a great task-master and would certainly dislike anyone who hated manual work. Deshpande followed these instructions to the latter, and when in one of the field lectures he answered Wheeler's questions to his satisfaction, Deshpande became one of Wheeler's favourite students. Wheeler himself sent him an application form for one of the studentships and hardly the

period of studentship was over when he was appointed an Assistant Superintendent! There were similar other cases. Once Wheeler liked some one, his appointments and promotions followed in quick succession. But it must be admitted his was not pure fancy.

Wheeler was a good and excellent judge of men, of their work and of their merit. Thus he advised me not to send Subbarao to an interview in the Public Service Commission. And he was right. Subbarao had developed a peculiar inferiority complex because of his physical defect. He also felt so much nervous before approaching his superior that he would go round and round his room. But he became a great scholar and field-worker. It was indeed a pity that he died so early.

Anyway, it was with the help of Wheeler that I took up the Neolithic problem in south India. Subbarao was sent to me by Dr Radha Kumud Mukherjee of Lucknow University with a suggestion that he should work on the Satavahanas. Since considerable work had been done on this theme, I asked Subbarao whether he would like to work on the Neolithic of Bellary. The subject involved considerable fieldwork, and would have to be followed by a small excavation. This was before Wheeler had dug at Brahmagiri. To my great surprise and joy, Subbarao, though otherwise shy and nervous, did an excellent job of it. And it was done truly single handed. Not only he had lost his right hand, but also he got no assistance from me. Just when I was to leave for Bellary to inspect his work, Gandhiji was assassinated and the country was thrown into a chaos.

Each of my students taught me something new, particularly Subbarao. He made excellent use of Richard's *Geographical Factors in Indian History* to which I drew his attention long ago when it was published in the *Indian Antiquary*. He also had the courage to openly differ from me. And a particularly heated

56 discussion took place at Hyderabad on the question of whether Series II tools should not be placed in the Middle Palaeolithic or in a later period. I also did not subscribe whole heartedly to his and Richard's theory, according to which major cultures in India had developed along the trans-continental routes. I am quite sure that had he been alive, he would have accepted the overwhelming evidence in favour of the Middle Palaeolithic period as well as the political and other reasons for the growth and development of such cultures in India.

7

While Subbarao was left to devote his attention to the Neolithic in south India, the small excavation at Nasik opened my eyes—my heart's desire—to the period just before our recorded history. We began under very auspicious circumstances. Had Sali not given us the spouted pot and an unbroken bowl from Jorwe on our trip to Nasik by bus, we could not have immediately grasped the significance of a single spout found below the weathered layer in our small trench at Nasik. Nasik also helped me to get a firm grip on pottery. This also happened by chance. The preparation of the section on pottery was left to Dr M.G. Dikshit but he joined the Sagar University and so when I returned from England after six months, I found that I had to begin all over again. It was a painful but wholesome experience.

Equally providential was our discovery of the buried river channel of the Godavari filled with many palaeoliths at Gangapur. Thus in one single season I was instrumental in opening the gateway to the prehistory and protohistory of Maharashtra, thereby disproving the century-old view of the geologists and archaeologists that the Deccan was not inhabited by Man as Gujarat and south India or Sind and Punjab.

When Dr Karve and I were frequently going to Langhnaj and Sabarmati, scholars as well as laymen in Pune thought why we could not discover Stone Age tools in Maharashtra? Why should we not pay attention to Pune with its two ancient rivers? they said. Dr Karve herself shared their views.

So after our third visit to Gujarat she and I, one day, got into the Mula-Mutha, beyond the Bund Garden and surveyed the river for a couple of hours. When nothing but broken pieces of china and bones and occasionally a few human skulls (because this locality is the cremation and burial ground) came to our lot, we were, out of measure, sad. Should we then survey the river upstream? We wandered for several hours up and down the Vithal Wadi but with little success. But luck again favoured me. One day after my lecture on prehistory to the M.A. students in sociology at the Deccan College, I told them how the terraces could be best understood if we could go over to the Mula-Mutha. For here, though we had not found any tools, the remains of terraces were clearly visible.

Thus we walked up to the Bund Garden and got near the river. When I was explaining how the thick red silt was formed, standing near the cliff on the right bank, just below the Pumping Station, to my great surprise, I saw the pebble conglomerate. It was not so thick as we had seen on the Sabarmati. However, I discovered within a few minutes a fine olive green flake. While the flake was genuine, its colour revealed in no uncertain way its age. It was olive green, exactly like the tools from Gangapur, near Nasik. A little later, I traced the remnants of the ancient pebble bed covering the bedrock. After this discovery we undertook a fresh survey of the upper reaches of the Mutha and found excellent evidence for the changes in the river-bed throughout the Pleistocene epoch, the last epoch of the Cenozoic

Since then my eyes were always riveted on the terraces on either side of the Bund Garden. When after the Panshet flood the river overflowed its bank, I could visualise the scene of some ten to twenty thousand years ago, when for some reason not yet known, the river rose to a phenomenal height and a layer of black coloured silt lay all over the Koregaon Park and both sides of the Deccan College except the highest rock surface. During this great rise the diorite dyke which rises across my present residence (*Satchit-ananda*) up to the main college building—the present building of Linguistic Department—was high and dry and the place must have been the home of the Early Man for we (Shaikh and I) have found many tools—pebble tools as well as scrapers and cleavers in and around this dyke.

Hence, my colleagues say, half in joke and half seriously, if I were not still occupying the site of my prehistoric residence! No wonder, they say, that stone-tools gravitate towards me because I have been used to handling them all these ages! If one believes in the theory of *karma* and *vāsanā* as the propelling cause of the cycle of human existence—*saṃsāra*—then there is no reason why such observations should not carry a great deal of truth. Whether true or not, I have found these prehistoric studies of engrossing interest. And whenever I go to the countryside I find that nature talks to me about the ages gone by.

9

This excavation as well as the earlier one at Nasik had given me a very trusted lieutenant in Dr S.B. Deo. Though Deo was originally chosen for reconstructing the cultural history from Jain sources, chiefly in ardhmagadhi, he showed a keen aptitude for field-work. So after he had completed his thesis on the history of Jain monachism, he was gradually

absorbed in the Department and was given a permanent and decent appointment. A man of very sparse habits and fewer wants, he would stand the whole day in a trench and see that nothing—finds nor layers—remains unobserved. With what great care and devotion he would look after the pottery-yard and maintain the daily record which would be of great help to us in after-dinner sessions when we would register the finds. How well he had imbibed the training and spirit of the Deccan College may be judged by the excellent work he did in Ncpal and Nagpur. The Deccan College is the only institution in India which has kept pace with its programme of excavation. Nor has it lagged behind in publishing the results of the excavations.

Another trusted lieutenant I found in Shaikh—Dr Z.D. Ansari. He had joined us as a photographer in 1945 having computed his probationary period under J.P. Joglekar, one of the most experienced photographers in the Survey. Ever ready to do any kind of work, Shaikh has shown exemplary tenacity of purpose as well as character in achieving what he set out to accomplish for himself as well as for the Department. Hence it is no exaggeration to say that whatever success I have achieved in establishing an archaeological department is due to the selfless and devoted service of these two pupil-assistants. When Deo was away in Nepal and then at Nagpur, Shaikh was the one pillar on whom I could always stand. It was their example which was emulated by others who came to me later.

10

From Nasik to Nevasa was a natural transition, though I must say frankly that I had not heard of Nevasa before. This time the invitation, or the suggestion, came from the late Shri B.G. Kher, the first Chief Minister of Bombay State. Kher was a pious man besides being a scholar. He was interested in Shri Jñanesvara, the Marathi saint-poet. Since

60 the saint had stayed for some time at Nevasa and composed the first commentary on the *Bhagavad Gītā* in a language other than Sanskrit, that is, Marathi, Kher thought that if an archaologist dug at Nevasa he might find some objects belonging to Jnanesvaran and others of his time.

We went to Nevasa. Before we had gone to Nevasa, Dr Karve and I had explored several ancient sites on the banks of the Godavari and the Pravara. When we went we saw a huge mound, cut into two, some of its sides having been exposed by the local earth-grabbers. A huge section was thus open for anybody's inspection. Deo, my wife and I soon found that the mound was much older than Jnanesvara. Here one might dig up the whole of the past history of Western Maharashtra. And so we dug of which a full report has since been published.

But more than the archaeological history, what we and particularly my wife, were pleased to find was the interest the local people took in our work and the co-operation they gave us. This made our four seasons' stay memorable. Add to this the fact that the mound itself is an ideal camping ground encircled by clusters of *nem* trees. At the entrance of the mound stands the ancient temple, which is believed traditionally to be the seat of Jnanesvara where he had dictated the *Gītā* to Shri Satchidananda Baba.

Jnanesvara inspired all of us. First, was the discovery of stratified deposits of the Early Palaeolithic and the Middle Palaeolithic. Once when I was away at Pune, Shaikh and others had discovered a fine symmetrical chert flake from the Hathiwell locality during one of our Sunday explorations. This was shown to me when I returned. The flake was so unlike the early palaeolithic handaxes and cleavers and the later microliths and chalcedonic blade tools that I concluded that the flake must belong to the middle period of the Old Stone Age.

But not satisfied with this hasty conclusions, I felt that we should search for its proper location in the river cliff. In our search my wife also joined; she had still retained her interest in our work. And to the great joy of all of us Sarla discovered such a location right near our mound. The site was not far from the one where Shaikh had earlier discovered, a thin but well cemented gravel conglomerate with an animal fossil *in situ*.

Later, Shaikh discovered numerous fossils, some loose, but all belonging to the Middle or Upper Pleistocene. Even now when he goes to Nevasa, he does not fail to visit the river sections. For, we all hope one day he will discover a human fossil as well at Nevasa.

It was at Nevasa again that we discovered a few thick, long chalcedonic blades and burins. Unfortunately these were gathered from the surface. But they were so different from the hundreds of blades we found from the excavation that I had no option but to suggest that these were symptomatic of the Upper Palaeolithic which lay buried somewhere nearby.

After twenty years Dr Rajaguru told me that such a stratified deposit he and Dr Mujumdar had discovered, upstream of Inamgaon, on the Ghod river. Thus, Nevasa has turned out to be the first site in India where the three characteristic cultural manifestations of the Old Stone Age were clearly recognized. The excavations on the mound were no less significant. Careful digging under Deo and Shaikh and aided by my new pupils, Mate and Chapekar, and a German girl student, Valentina Rosen yielded positive results. For the first time we could obtain an idea of the houses of the Satavahana period, with their fine lime-surfaced floors. Just below the black earth we found the burials of an earlier age in earthen pots. Thus the first clue to Maharashtra's relations with the South in prehistoric

62 period (Karnataka and Tamil Nadu) was established.

It was this history of Man's continued development for more than 100,000 years that has been graphically displayed in our museum at the Deccan College. For enabling us to do so we shall be ever grateful to Shri B.G. Kher and Shri Jnanesvara.

11

The discovery at Nasik revived my dream of testing the truth of our Puranic legends. If Nasik could go back to 1000 B.C. and even earlier, could not the same be true of Maheshwar on the Narbada? I had read, while quite young, that here ruled King Sahasrarjuna of the Haihayas who alone among all other kings had defeated Ravana. Fortunately, Amrit Vasant Pandya and before him, Karandikar, had done some exploratory work at Maheshwar. While the objects discovered by Karandikar we had no opportunity to see, those discovered by Pandya I saw in the company of Dikshit at Vallabh Vidya Nagar. The rest of the story is well-known. But the point that I should like to stress here is the idea of a joint expedition and the support that I got from the three universities, particularly from the Maharaja Sayajirao University of Baroda. Dr Subbarao and his staff co-operated whole-heartedly. I was able to do here one of the richest Chalcolithic sites in India—one of the best jobs of my career. There is still some scope for more meaningful work as both Deo and I remind ourselves whenever we meet.

At Maheshwar-Navadatoli the staff of the Maharaja Sayajirao University consisted of Dr R.N. Mehta, Dr S. Chaudhari, Ramesh Khatri and others—all Gujaratis. All of them not only became expert diggers but as brought a sense of mirth and hilarity to our camp. Maharashtrians are, as a rule, reserved. Not so the Gujaratis. After the day's work, and particularly on Saturday evenings, Chaudhari would invariably go for fishing, Mehta for swimming. After

dinner we would go boating. The boats there were fairly big, all flat-bottomed and wide enough to accommodate about forty persons. Thus our entire camp could be accommodated. Then Chaudhari would start singing which would give a fillip to the hidden talents of Rasar for composing songs on our work. Sutaria would sing devotional songs. On holidays we arranged sports and competition. Some of our workers including women also joined. There was real comradeship. The three seasons' work at Navdatoli have not only contributed an important chapter to Indian archaeology but left an indelible mark on the memory of all of us who had participated in it.

12

Maheshwar is an old site, having a magnificent *ghāṭa*, a number of temples and memorials (*chhatris*) built either at the instance of Rani Ahalyabai Holkar of Indore or during her reign. Everyday while going up and down the various localities—Mandal-kho and others—I used to admire these beautiful monuments. No doubt they were of recent period. Should not these and similar monuments of the 18th-19th century find a place in our history of art and architecture? I, therefore, decided to photograph the Maheshwar monuments as well as the century-old houses at Navdatoli. This foresight paid.

When I reached Pune I found a student who had done history at the M.A. and could also draw. When he asked me if he could do his Ph.D. under my supervision I told him whether he would be willing to work on the Maratha art and architecture. He and others—even scholars—wondered whether the Marathas had anything to do with art, busy as they always were in fighting and establishing their hold wherever they went. The student asked me if he could get reading material on this subject. I told him that he would have to reconstruct the entire history of Maratha art as nothing has been

64 written about it so far. He took up the challenge. *Maratha Architecture* appeared within a few years, and now we have a school of Mediæval Archaeology flourishing under Dr M.S. Mate.

Another student, Pramod Gadre of Ahmadnagar College, prepared a thesis on the *Archæology of Ahmadnagar* under my guidance. Unfortunately this splendid work has remained unpublished so far. This instance has been cited to illustrate that I am attracted by all aspects of archaeology—life in the past—not merely prehistory or protohistory.

13

In 1953, after my father's death, we happened to go to Nathadvāra, one of the holiest places of Vaishnavas. While on the pilgrimage, I did not forget that it was the other end of the Aravallis, where the river Sabarmati originates and flows through North Gujarat. It was on its banks I had my baptism of prehistory. So the river Banas which flows by Nathadvāra must have some traces of the Early Man. As luck would have it, one tool was found. And then I visualised the entire prehistory of Rajasthan. But who would reconstruct it?

Then I remembered that the late Dr D. N. Majumdar wanted to send a student for training and I had advised him to send him after he had completed his M.A. So when Misra came, I asked him whether he would explore Rajasthan. With what success Misra discharged the trust placed in him is well-known. His explorations in the Bechar, the Banas and the Luni were followed by excavations at Bagor and Tilwara. Having gathered this experience he is now digging at Bhimbetaka in Madhya Pradesh with conspicuous success.

I particularly welcomed Misra, because I had realised that archaeology—particularly prehistory—should be firmly based on anthropology. It is not

enough to discover objects. These have to be interpreted—an exercise that requires an insight into the life of the primitives, their customs, manners, and social structure. While I myself could do little with all the duties I was saddled with, I had always thought that well-trained students in social anthropology would be an asset to the Department.

An edge to this line of thinking was given when at Ahar, near Udaipur, I found that the houses of the Bhils who still live at the foot of the Dhūlkoṭa mound, were modelled exactly on the 4000 year-old houses we had discovered in our excavation. Who were the ancestors of the Ahar or those of the Navdatoli culture? If they were aboriginals, as one school of thought maintained that they were, there should be some traces of similarity in the life style of the present Bhils whose material remains we had excavated.

Understanding Archaeology

1. *Ethno-Archaeology, Epigraphy, and Palaeography*
2. *Archaeological Chemistry*
3. *Tekkalkota and Neolithic Culture*
4. *The Upper Palaeolithic Culture*
5. *In Search of the Aryans*, B.B. Lal and Hastinapur Episode
6. *Inamgaon*, Dr. Dhavalikar, *Bio-Archaeology*.

YET another student from the Anthropological Department of Lucknow university was entrusted with the study of ethno-archaeology. Since ethno-archaeology is not a particular problem of Ahar only, but of all proto-historic cultures in India, its study was made a permanent feature of the Archaeology Department of the Deccan College with the appointment of Dr Malati Nagar.

Except for the temporary appointment of a lecturer in Ancient Indian Culture and a lecturer in Environmental Archaeology, after Zeuner's visit to India and his close association with the work at the Deccan College, no planned development of the department was possible until 1958-59, when the University Grants Commission decided to start a Department of Ancient Indian History and Archaeology in six universities.

I took this opportunity to create a lectureship in Epigraphy and Palaeography because these subjects were utterly neglected in India. There was another

reason as well. Discussions with Richards in London had stimulated my interest in places and persons in history. And I was convinced that not only are the former significant in India or, for that matter, anywhere in the world but also the latter, particularly in India and perhaps also in South-east Asia. I found that both these offered stratigraphical and chronological information to chart out the growth and development of man's culture from age to age, more than any other facts.

I was so much fascinated by this material—viz. place and personal names that I found in Gujarat inscriptions became the main theme of my lecture in 1944 that I delivered at the Bombay University for the Thakkar Vassonji Lectures, though I could, if I had so wished, lecture on the prehistory of Gujarat on which I had then done some research.

However, my lecture was the first full-fledged and systematic study of place names in India. Small and large administrative units have been reconstructed on the basis of these names which gave an excellent idea of the way how our political units worked in our country. Two basic requirements for this study may here be mentioned. First, the student should belong to the same region that he has taken up for study so that he or she can have a better knowledge of the persons and places of the region than his teacher. Secondly, some knowledge of Sanskrit is essential as also knowledge of the language in which the inscriptions are written.

Unfortunately, this kind of work which I consider to be the unique contribution of the Deccan College to the study of historical geography and cultural ethnography of India is little known. But when the history of such studies will be written, the true value of the contribution of the Deccan College will be appreciated. Not satisfied with what I did, I thought of depicting the ancient geography of Gujarat and Maharashtra and some parts

68 of Karnataka on the walls in the new building of our College. When a savant of historical geography saw our mural depiction he remarked, "We did not have the opportunity to do anything of this kind because we never got devoted students who could do such a thing".

I should also like to mention that the discovery of new inscriptions and copper plates by Dr Shobhana Gokhale of the University Department was made possible because provision was made for teaching and field-research in this subject at the Deccan College and in the Pune University. Whether there are students or not, if our past history is to be fully resuscitated then provision must be made for such studies in at least two or more universities in this country. For several reasons the epigraphical branch of the Survey cannot cope with new discoveries as well as the vast material that have already been collected for more than a century.

Further, when the opportunity came, besides making provision for epigraphy and palaeography, I also set up a chemical laboratory with an archaeological chemist to man it to strengthen the studies of these two subjects.

2

The results were soon apparent. The gap between the early historic and the chalcolithic habitation which I had discovered at Nevasa on the basis of the thick layer of black soil was first confirmed by Professor Zeuner, and later proved by scientific tests conducted by Dr G. G. Majumdar. Majumdar's chemical analysis of the entire 25 feet profile by taking samples at intervals of 6 inches showed that the humic content was more or less similar on the top soil (that is, in the present black soil layer), in the intervening black soil layer, and in the layer which is at the very bottom above the yellowish silt. How he later confirmed his conclusions by examin-

ing several samples at different sites in the Deccan Trap is known to those who keep track of archaeological developments in this country. Equally known is his imitation of the megalithic Black-and-Red ware and Painted Grey Ware.

Another colleague of Mujumdar, Dr S.N. Rajaguru, has thrown more positive light on the climatic conditions during the Pleistocene by his study of the river gravels in Maharashtra. To these studies our pupils, particularly Statira Guzdar, had contributed a great deal. Her thesis was adjudged best by Dr Butzer who is an international expert on palaeoclimatic studies and archaeology. All these were possible due to the interdisciplinary studies that we could undertake at the Deccan College. Now with the addition of a palaeobotanist (M.D. Kajale), a palaeontologist (Dr G.L. Badam), and an ethnoarchaeologist (Dr Malati Nagar), it is hoped to cover as many facets of the ever-widening horizon of archaeology as possible. The Maharashtra Government also upgraded the existing lecturerships in ancient Indian culture, art and architecture as well as environmental archaeology and field-archaeology and museums though, unfortunately, these posts have not been made permanent. Side by side with these developments, new areas in India are being explored and steps are being taken to fill up the lacuna in our knowledge of the Stone Ages or later proto-historic cultures. However, I must say that it is certainly unfortunate that students from distant regions like Orissa, Uttar Pradesh, and Andhra Pradesh have not found opportunities to continue the work for which they were trained. The reason is simple. Institutions like the Deccan College are few. In other universities the teachers are saddled with so much teaching work that they hardly get any time for going to the field. And it is worse when the callous Head of the Department does not allow his assistants to publish their work they have done for years on end. Naturally, there is acute frustration among research students. These students

70 naturally think of the opportunities which the students find the Deccan College for their research and envy those who have found a permanent footing here.

3

As I said, my research of the Neolithic culture in Andhra-Karnataka belt was cut short because of Gandhiji's assassination. So when a student from this region, M.S. Nagaraja Rao, came to work under me for his Ph. D., I welcomed him and with his help we first excavated Tekkalkota and later Sangankallu in Bellary district. Indeed, I was so much fascinated by the former site that I invited all the members of the Department to participate in intensive and extensive excavations at Tekkalkota. I always feel that newly acquired knowledge should be shared and opportunities must be found to disseminate it. A significant contribution to this subject was made by Paddayya's trial dig at Kodikal in Shorapur Doab. Here he has also uncovered a camp site of the Early Man at Hunsgi. Thus I can reasonably hope that the Neolithic problem, which was left at an interesting stage at Tekkalkota, will be pursued with vigour. While there are, and must be, many sites like Tekkalkota, Terrace I at Tekkalkota, is so large that if excavated for two reasons, it will afford a good insight into the settlement pattern of the Neolithic people.

As expected, Dr Nagaraja Rao's excavations at Tekkalkota and subsequent excavations conducted by us at Sangankallu not only gave us the picture of the settlement pattern of the Neolithic people but at the latter site we also uncovered two more earlier periods in the Stone Age—Mesolithic and pre-Mesolithic.

Now, one more link remained to explore, namely the Upper Palaeolithic. With its discovery we will have the entire prehistoric cultural chain reconstruc-

ted right from the early Stone Age down to the historic period through the Neolithic and Megalithic so far as South India is concerned. 71

4

The Upper Palaeolithic culture came to be discovered by a persistent and methodological enquiry. While exploring around Renigunta in Andhra Pradesh besides finding handaxes and cleavers of the Early Stone Age and points and scrapers of chert, etc. of the Middle Palaeolithic, Murty had also discovered a few typical blades and burins in greenish quartzite. When I saw these I was immediately struck by their unique character. They were quite large and thick, typically Upper Palaeolithic, and almost identical to those I had got in exchange from Musée de L'Homme in Paris. And, I rightly argued, that there must be more in that area constituting a distinct cultural niche. Repeated searches yielded more than 600 artifacts and also in the adjoining district of Cuddappa at Yerragondapallam and elsewhere Reddy discovered a large number of such objects.

Then I remembered that at Kurnool in the Billa Surgam caves, Bruce Foote and his son had found bone tools like those of Megdalénian of France. So Murty was advised to dig there. It is indeed a difficult forest terrain to forage about without any trace of human habitation. But his effort was well-rewarded. The excavation of the cave yielded typical Upper Palaeolithic bone tools.

Thus by constant thinking and planning, by giving opportunities to our young teachers and students, the missing links in our history and prehistory are being gradually filled up. That is how Murty's discoveries in Chittoor and Kurnool districts were confirmed by Sali when following his surface explorations at Patne in Dhulia district, he dug for the Deccan College. and found excellent evidence

72 regarding the Middle, Upper Palaeolithic and the Mesolithic cultures in several trenches.

Whether it be archaeology or crime detection, a clue has to be scientifically and methodically pursued and wherever this healthy principle is pursued success follows. In these particular cases, two very complex questions were involved, namely the postulation of two cultural stages spanning no less than 1,00,000 of years implying slow but steady progress made by man not only in India but also in Europe and Western Asia.

Of course, when I first postulated the existence of the Middle Palaeolithic my assumption was opposed by Subba Rao at Hyderabad in 1958, as I have already mentioned. The same happened in 1972 when Dr R. V. Joshi, one of my very first students, like Subba Rao, with his wide experience thought that it was still premature to talk of the existence of a true Upper Palaeolithic cultural state even though I showed him the Upper Palaeolithic sites at Renigunta. Joshi and others have now accepted my thesis.

I, of course, did not rest satisfied with this willing or unwilling acceptance. A theory or a model, when formulated before or after some ground-work, has to be scientifically proved and tested. This is certainly difficult in archaeology, particularly in India, as I have pointed out in the D. N. Majumdar Lectures. Be that as it may, one has to be aware of it and take steps accordingly to understand the process. It was in this spirit that we embarked upon horizontal excavations at Navdatoli in 1957-59, at Nevasa in 1959-61, at Ahar in 1961-62, and at Inamgaon in 1968 and later at Tekkalkota and Sangankallu.

At Navdatoli the problem of the Iranian contact or influence intrigued me which was indicated by the spout of channel and stems of goblets as well

as a few characteristic designs that I came across. While extensive excavations have given us good idea of the life of the inhabitants some 3,500 years ago still we do not know who they were. There is not a day when I do not wonder what these people were doing with so many goblets in their small, one-room tenements when they had nothing but stone chips to light their daily fire. Or were these kept perpetually burning once these were lighted?

It is now more than fifteen years that these problems have been broached. Neither we nor the local scholars who now wish to keep outsiders away from sharing their knowledge have taken any steps to understand these problems. The first step is to find out whether the goblets were confined only to Navdatoli or were fairly well distributed in Malwa or Western Madhya Pradesh. A village-to-village survey, particularly where there are ancient mounds, can easily solve this problem. One day some of these sites will have to be excavated, as we did at Navdatoli.

When I was on way to Maheshwar, or a little earlier, I met V. S. Wakankar of Ujjain in the Prince of Wales Museum. Learning about my interest he not only willingly joined our excavations, but spread before me his collections of potsherds from a number of sites in Malwa. Thus I was convinced that we were not digging a solitary site, but a site which might represent the culture of Malwa or Western Madhya Pradesh. During these twenty-five years I have been telling him about the unique kind of cups or goblets that had so far not been found anywhere else in Malwa.

Dr Wakankar who has gained considerable experience by study, training, and continuous travel in Malwa and elsewhere told me recently that such cups having a base and a stem seemed to be confined only to Nemad (South Malwa) as these could not be found anywhere else—at Ujjain, Mandasore, Vidisha,

74 and Eran. Thus my initial response and later study seem to be finding confirmation. My final view is that these goblets must have been brought by the rich people from Western Asia possibly across the Arabian Sea and then taken up the Narmada. In this way my original suggestion that some Iranian influence was at work at Maheshwar-Navdatoli would find some confirmation. What is needed therefore is an intensive exploration of south Malwa.

The excavations at Ahar (1961-62), Dwarka (1964), and Tripuri were all chiefly undertaken to solve, if possible, the Aryan problem, and to understand the related problem—the truth or otherwise of the accounts given in the epics and Puranas. For giving me an opportunity to probe these problems, I am thankful to Dr Srivastava, the then Director of Archaeology of Rajasthan, Shri J.M. Nanavati Director of Archaeology of Gujarat and Shri, Jayantilal Thakur and Dr D.P. Mishra, the then Chief Minister of Madhya Pradesh. The Deccan College could not have thought of undertaking excavations at Ahar, near Udaipur in southern Rajasthan. But I think I was destined to throw some positive light on this much neglected area, and particularly its contribution to our knowledge of the Copper technology.

5

Since Lal's discovery at Hastinapur in 1952-53 I have been anxious, like others, to know more about the Aryans, B.B. Lal had said that the Painted Grey Ware Culture goes back to the Early Aryans. Though I did not agree with this conclusion and I had always maintained that the Painted Grey Ware culture could not have belonged to the *Mahābhārata* period, if our tradition is any guide. You may date the *Mahābhārata* period as you please but its age certainly begins at the end of the entire period beginning with the Aryans or the Puranic dynasties.

In one of the lectures that I delivered at the Tata Staff Club at Pune where Professor R.D. Choksey, one of the Directors was in the chair, I pointed out after giving an account of the excavation at Navdatoli the possibility of the Navadatolians being a branch of the Aryans, because of the similarity of its pottery with that of the Iranians. I had also impressed upon my audience the necessity of extensive excavations at Hastinapur to prove (or disprove) the theory of Lal. After the lecture, Prof. Choksey told me that if funds were the only problem then he could help. To my great surprise and joy, the two Tata Trusts promised to give Rs. 20,000 each for a period of three seasons.

I always thought that given our modest requirements, unlike those of the Archaeological Survey of India which camp out like the splendid Mughals, the money that the Tatas promised should be enough for a fairly reliable horizontal-cum-vertical dig. Now, of course, with prices spiralling at least double that amount of money would be required. However when funds were made available I discussed with the then Director General of Archaeology in India of my plan of digging at Hastinapur. The director drew my attention to the convention that a site once dug by X should not be allowed to be dug by Y. This monopolistic attitude of the government has come in the way of our knowledge of the Painted Grey Ware. More than twenty years have gone by since then and the Survey has done nothing about Hastinapur. In a recent symposium on the *Rāmāyana* and *Mahābhārata* at Bhopal, Prof. Lal himself said that what he had dug at Hastinapur was indeed very little. If it were so, as indeed it is, can we still continue to go on holding such an important hypothesis ?

Anyway the Director General said that I could select any other Painted Grey Ware site I liked but not Hastinapur. He was kind enough to place a jeep and an assistant at our Disposal who had worked

76 with him in the exploration of the Painted Grey Ware sites. For about two weeks the late Dr Subba Rao and I examined several sites in the Saraswati Valley in the erstwhile Bikaner State. But we could not come by a large and promising site to repay an excavation which could shed light on the Painted Grey Ware culture. Thus an excellent opportunity was lost on account of the rigid attitude of the Archaeological Survey of India.

It was this inflexible attitude which again stood in my way of conducting excavations at Lucknow in 1975. The incident is worth relating. Lucknow is supposed to be the ancient Lakshmanapur or Lakshmanavati, its founder being no other than Lakshman, the brother of Rama. So, while I was there for delivering the late Dr D.N. Majumdar Lecture local scholars and some university professors suggested that the Deccan college should excavate at Lucknow to acquaint them with the antiquity of their city. I told them that it should be excavated by U.P. archaeologists, but they were keen that we should undertake this excavation. I asked them to arrange for funds and to my great surprise this was done in a day or so.

But when the Deccan College approached the Director of Archaeology in India we were told that the site was to be dug by Prof. B.B. Lal and his operation *Rāmāyaṇa* is already afoot. I may say our work would have furthered the objectives of Lal's plan, and not hindered it. Furthermore some money and time could have been saved. Unfortunately, as it so happened, he could not dig at Ayodhya for reason best known to him. And this site which would have required at least three seasons of unremitting work, if not more, remains still undug.

Meanwhile, the citizens of Lucknow lost an opportunity to know the age of their city. The loss is not ours, of the Deccan College, but of the Archaeological Department. Why? Had the Stan-

ding Committee given us permission to excavate one of the members would have lost his monopoly over some parts of U.P. Thus, the ghosts of Nawā-bashāhī are still dogging us. I am reminded of a similar incident which Dr Wheeler told me soon after he came to India. One of his newly appointed officers did not want the Deccan College to carry out explorations in the Bellary district. Wheeler said: "My boy, there is work for 500 persons. So you go ahead!" Unfortunately, this wholesome advice was forgotten soon after he left India. The Archaeological Department thinks in regional terms but cultural problems transcend regional boundaries!

To revert to Rajasthan. After visiting Jaipur and Jodhpur, Subba Rao and I reached Udaipur. Here when I saw the huge mound, called Dhulkot, on the outskirts of the city, I was curious to know the part the site had played in the cultural development of Rajasthan and its neighbours, that is to say, Gujarat in the south and Madhya Pradesh in the east. Already R. C. Agarwala, an officer of the Rajasthan Department of Archaeology, had carried out preliminary excavations which yielded pottery known today as the Black-and-Red Ware of Ahar. Similar pottery had been found in the lowest layers of Navdatoli.

So, with the Tata funds and cooperation of the Rajasthan Government, we dug at Ahar. And it proved that its local name—Tambavati (Copper City)—was based on the fact that some 4,000 years ago, its inhabitants smelted copper from local ore and made axes and other copper implements. Had we continued, we would have certainly learnt much more about this Copper Age city. But we were politely told that this work could be left to the local scholars to accomplish. It is now 15 years since we had left Ahar and nothing has been done. The local scholars are still to be born!

Our excavations at Dwarka and Tripuri not only

78 helped me to understand something about the antiquity of the Puranic sites, but also explained why our epics and the Puranas grew thicker and thicker as a result of interpolations and when. Though there is considerable scope for more work at both these sites, it will not be wrong if I say that the actual truth about their antiquity remains still unknown.

Dr Jayantilal Thakkar and Dr Dwarka Prasad Mishra felt, and possibly feel even now, that Dwarka and Tripuri are thousands of years old and go back to the times of Shri Krishna and Tarakasura. However I am of the opinion that their story could not be taken back beyond the first century B.C. in case of the former and sixth century B.C. in case of the latter.

At Tripuri, I thought of a new experiment which I should like to call "Archaeological Federation." I sent out invitation to the M. S. University of Baroda and the University of Sagar to take part in my experiment. Instead of all the three teams working at one site under the super vision of one Director, each team was advised to complete the excavation of one site within a specified time. The report of each site was to be prepared separately and could also be published separately, if so desired.

This arrangement, I thought, would give sufficient incentive to each participating institution in the excavation work which originally was to last for several years, because Dr Mishra had placed a large amount of money at my disposal. Unfortunately, none of the sections that the three institutions dug yielded any clue of the prehistoric phase, as at Maheswar and Navdatoli. And since I was primarily interested in this problem, the M.S. University and the Deccan College withdrew, allowing the Sagar University to continue the excavations, if it so desired. So far they have dug for three seasons, but have not found anything prehistoric.

These excavations have convinced me that the only way so introduce some realism into our epic and Puranic studies and beliefs is by excavating the sites mentioned in the epics and Purāṇas. Unfortunately, there is no institution in Madhya Pradesh which can tackle this problem. If outsiders are prevented from solving this interesting and important problem which touches the heart of our cultural development then the problem will ever remain unsolved. Hence any attempt to keep out others seems meaningless. It is forgotten that the divisions of the country in the past and at present were and are made for administrative convenience only. Past cultural processes which now archaeology and anthropology unravel know no geographical barriers. Hence the dog in the manger policy will be suicidal. In fact, the need of the hour, in a developing country like India, is for greater cooperation and collaboration between institutions not only within a town but within different states as well. Archaeological studies are becoming multi-disciplinary and no single institution or state has the resources or the expertise at its disposal.

The intensive study of the Navdatoli lithic blade industry led me to make a few hypotheses about the socio-economic condition of the ancient Navdatolians. How far are these true? These models, or still better hypotheses, have to be proved by careful excavations at Navdatoli. Failing, the observations can also be checked at other sites like Navdatoli. I was on the lookout for one such site in Maharashtra. Nevasa did not offer good scope, for the site was found disturbed by the later occupants.

6

What I was so anxiously looking for was offered by Inamgaon—a completely undisturbed site on the bank of the Ghod river not too far from Pune. At Inamgaon, I was anxious to know the unit of the family. This could have been fairly easily known

80 at Navdatoli had we kept a strict note of all the potshreds, particularly the number of the channel spouts, the stems of the goblets and the necks of the vessels found in each oval or square house. Unfortunately, we were not seized of such larger questions at that time. We were still in that general "pottery phase" as taught by Wheeler and expounded by Sir Leonard Woolley. In fact, a question of this kind has ever been asked anywhere in India or anywhere else except in the very recent excavations of American Indian sites in the U.S.A.

Soon after I landed in London when I met Codrington he drew my attention to his article in *Indian Antiquary* on the cultural study of Ajanta paintings. It was a brief but quite a novel attempt to understand the precise nature of the material aspects of Indian culture.

When I joined the Deccan College, a monograph on the Nagarjunakonda sculptures had just been published by Longhurst. I showed that to Naik, and asked him if he would like to undertake a similar study. To my surprise and joy, he analysed the entire monograph and all the sculptures mentioned therein and this was published in the *Bulletin* of the Deccan College. It is a much better and more scientific study than the similar study done on the Amaravati sculptures. But Naik not being as good an artist as Sivaramamurti, the quality of the various reproduction in his book is not good.

Later, when Dhavalikar came, he undertook a study of Sanchi and Ajanta. The latter study is well done because during that period a number of excavations had been undertaken. We now know the precise time-range of a number of objects. Add to this the maturity of the scholar. Along with Shaikh, Dhavalikar has also shown great proficiency in excavating the remains of the mud-built houses at Inamgaon. He has kept himself abreast of the current developments abroad in archaeology and has also attempted

In understanding the settlement pattern during Chalcolithic times. This is not only a new, but a desirable, study of our past cultures. It is on these lines that future excavations in India have to proceed instead of the current hit-and run methods of digging.

Because Ansari (Shaikh), Dhavalikar, Rasar, and Padwal are working continuously at Inamgaon all of them have developed such expertise and skill, like a doctor or a surgeon, in detecting the existence and then exposing the remains of the round, square or rectangular mud houses. It is difficult to find their equals anywhere in India.

A few American students having participated in this prehistoric house excavation have now planned a small excavation of their own near Inamgaon. We have further tried to ascertain the habit of each family from the study of animal bones found in each of the houses. Such bio-archaeological questions have been recently asked by the archaeologists in Europe and elsewhere. All developing disciplines must ask new questions but such questions can be asked only after some ground-work. Unfortunately suggestions of this type will remain only on paper, because a majority of our excavations are still confined to a few trenches and recovery of finds and personal supervisions are absent. Unless there is day-to-day discussion both in the field and in the evening, which the Americans call "feed-back", mere formulations of models and theories are of little use. Side by side there should be a multi-disciplinary approach. This is as a rule shunned, and secrecy is the rule among the scholars. Unless things change archaeology in India has no future and mine would remain only a cry in the wilderness.

Nehru Fellowship

1. *Nehru Fellowship* 2. *Miracle in Kashmir* 3. *On archaeological excavations* 4. *Mainly Personal*
5. *Rare Hospitality* 6. *Scientific Study of Astrology*
7. *Awards* 8. *Attitude to God.*

BY 1963, I had gained a fairly good idea of the Stone Age and other cultures, practically of all India. What remained was a first-hand acquaintance with the sites in Kashmir, Kanyakumari, Dwarka, and Bhuvaneshwar so that a more integrated picture of the cultural development of India could be had. Though I was aware of the gaps in my knowledge of Indian prehistory, frankly speaking, I had not thought of filling these gaps. I was preoccupied with my first love, the archaeological interpretation of the *Rāmāyaṇa* and *Purāṇas*. Then suddenly an opportunity came. One evening in 1967-68 a letter reached me at Pune redirected from Baroda. It said that my name had been recommended by the Gujarat University for Nehru Fellowship, and that I should send my bio-data and the details of the subject I should like to work on to be forwarded to the Jawaharlal Nehru Memorial Committee. At first, I could not understand what this fellowship meant, for only on the previous day, I had read in the papers about Nehru scholarships and had thought of recommending the name of one of my students for a scholarship. I thought if I should apply for a fellowship at all! But when all the particulars of

Nehru Fellowship were made available to me then the aim and nature of the Fellowship became clear. 83

Though Nehru Fellowship was awarded to me when I was on the wrong side of sixty, it gave me an unique opportunity to visit distant prehistoric sites in India. Not only was I able to see the sites on the south-eastern coast around Madras, but I also saw many sites at Kanyakumari and Rameswaram. As a result of the inspection of the century-old sites I could offer a different interpretation of the so-called *teris* (fossil) sand dunes. A visit to Garo Hills in Assam (now in Arunachal Pradesh) also helped me to establish the existence of the Early Stone Age culture in that region which the scholars refused to accept because they had always thought that Assam could never have the Early Stone Age Culture on account of ecological (climatic) and other reasons. Later, while studying the geo-morphology of the region, I found that this region was at one time one landmass and the Bay of Bengal took shape subsequently and, hence, in spite of marked climatic difference, the Early Man must have migrated to the Garo Hills from India proper as also his successors—the Middle Palaeolithic and even the Mesolithic people. Assam's contact with south-east Asia is, at present, well documented.

2

I had planned to go to Kashmir also just to acquaint myself with the true glacial deposits but not with a view to making any discovery there. This could not be even dreamt of because when De Terra, Paterson and Wadia before them had spent months and years and they could not find any evidence of the existence of the Early Man, how could I? But miracle does happen and it happened. Along with R.K. Pant and Sardarilal of the Archaeological Survey of India in Srinagar, I was examining the glacial deposits on the Liddar mentioned by De Terra and Paterson. As I had never seen an Ice

84 Age glacial conglomerate, though I had seen hundreds of ordinary river conglomerates in Gujarat, Maharashtra, Andhra, Karnataka, Madhya Pradesh, Uttar Pradesh, and Tamil Nadu, I was examining piece by piece each clod of earth and lump of stone as they came out. One curious-looking stone I kept as a child would keep a fine glossy pebble found on a river bank or a sea shore. It definitely showed some ice action. Lo! and behold, the next moment, my eyes fell upon the wavy edge of a large broken greyish stone. The rest of the stone was inside the section, so we were not sure whether it was a tool—a man-made thing or just a broken piece of stone. Not expecting any tool, I took it out though normally we photograph the object before its removal. To my great joy and surprise the flake bore all the signs of a man-made tool !

Particularly striking was the protuberance, called “bulb of percussion” in our jargon. So, here was the first evidence of the existence of the Early Man in Kashmir valley during the First Ice Age or soon after. My colleagues were indeed surprised and glad that such a thing had been discovered in their state. And then they remarked : “Never had any prehistorian examined so carefully, so-called boulder conglomerate. A large party, under a very experienced and well-known Indian prehistorian had come to this site but after looking at this deposit cursorily they went sight seeing.” Later we found a hand-axe too at the same spot in a layer just above the boulder conglomerate. This time we took all the normal precautions and photographed the tool before it was extracted.

This was indeed an epoch-making discovery. Many scholars in India and abroad were glad when they heard of the discovery. Some even congratulated me. Some were, however, jealous, and went to the length of saying that it was all propaganda. Luckily before the campaign was started, I had published an article giving full details and illustra-

Not content with this runaway success, I also organised a joint expedition with the Archaeological Survey which consisted of highly experienced geologists and prehistorians. We examined this section at Pahlgam and many other sites in Kashmir. This was followed by one more search, but this time I was not one of the party. The results of these two explorations in Kashmir were later published in *World Archaeology*. Thus any lurking doubt about the existence of the Early Man in the Ice Age Kashmir has now been removed once for all.

3

The Kashmir episode has been related in some detail, because I always believed that any new discovery in archaeology, if it is really to be sustained, should be tested by repeated observations and excavations, preferably by different scholars. That is why Langhnaj was first excavated by me (thrice), then independently by Subba Rao, and finally by Dr Kennedy and Dr Corvinus. No scholar, however great or known for his skill of observation, should claim omniscience. It was because of this reason that I wanted to dig at Hastinapur and had secured enough funds as well. But the authorities thought otherwise. It is now nearly twenty-five years since this site was first excavated but, alas, we are today no wiser than what we were in 1953.

After my discoveries in Kashmir, I felt that it was necessary to strengthen the prehistory branch of our Department by appointing a specialist who should not only be a geologist and a prehistorian, but who should have experience of glacial or ice-bound regions, so that the Deccan College can undertake such studies when the opportunity came. Fortunately the UGC, under the Special Assistance Scheme to Universities, gave a Professor in prehis-

tory and lecturer each in paleontology, palaeobotany, and ethno-archaeology. So with the addition of this staff, the Deccan College is now the only institution in India which is equipped to make use of multidimensional approaches to the understanding of our past cultures.

Let me give another example of the narrow and selfish attitude of a scholar. We wanted to ascertain the truth of the so-called Oldwvai Industry at Mahadeo Piparia on the Narmada. Unfortunately, the discoverer had not the courage to show us the exact spot on the section which he thought was the oldest deposit on the Narmada. The discoverer forgot that truth will be out sooner or later and that he could not hide it for long. The Piltdown forgery could not remain a secret, once the scientists had found ways of distinguishing between the old and young bones. If any discipline or science expects complete honesty from its devotee, it is certainly archaeology. Very often, the discovery in archaeology, big or small, important or unimportant, is made by a single man and therefore he must give an honest account of his discovery. But there are scholars who do not give out the full truth.

The picture of India that thus emerged or stood before me as a result of personal inspection of the sites in the distant corners as well as in the heart of India, such as in the forest of Dang, was that in spite of great and marked climatic and geological contrasts as well as ecological variations, the Early Man and his successors, had manufactured or were inspired to manufacture almost identical tools. This identity of material culture is indeed surprising. It may be asked why. I am of the opinion that in spite of ecological differences and probably ethnic differences as well (of which we have no idea at present) homogeneity of material culture which is to be found in all the three continents can be explained on the assumption of the minimal needs.

It was, also destined that I should devote the maximum time of my daily life to archaeology. During my school and college days, though I did attend to some household work, generally my parents spared me from attending social functions. As a result I was left to myself. Even when I settled down in Pune I led a life of a recluse. In the first place, we lived far away from the city, and it was not so easy to go to the city from the Deccan College for want of transport facilities. My wife too was of the same temperament as I. She loves solitude and, hence, avoids all social contact. The influence of such saints as Shri Upasani Maharaj of Sakori, Shri Aurobindo and the Mother and Shri Raman Maharshi had developed in her an other-worldly attitude. Thus our life developed on a line which is not quite common.

Though both of us disliked social life and kept ourselves away from enjoying the normal married life, both of us enjoyed roaming in the hills, forests and river banks, and could do without the many necessities of life. When we went to Kasmir, soon after marriage, we cooked our own food and instead of shopping filled our eyes with the beauties of nature. After joining the Deccan College, the ancient monuments in Andhra, Karnataka and Tamil Nadu were visited in the same manner camping like a gipsy family wherever we went. Thus my wife could, and did, accompany me in many archaeological excavations. When I fell ill on the Sabarmati, my wife immediately joined me and was with me till the end of the expedition.

In the 1945-46 expedition she extricated us from a very peculiar and difficult predicament. In those days, and perhaps even now, there were no hotels or rest-houses in out-of-the-way-places like Valasna on the bank of the Sabarmati in North Gujarat. For staying at such places one had to depend upon the

88 hospitality of the headman of the village. Valasna at that time was under a semi-independent chief, owing allegiance to the Gaikwad of Baroda. We had planned to survey the upper reaches of the Sabarmati and selected Valasna for our stay as it was right on the river bank. With a letter of introduction from the *vahivtdar* (collector of Mehsua) we reached Valasna with our fairly large camp, including two Gurkha policemen. Looking at our clothes, our equipments, and particularly two women, my wife and Dr Karve, the local people including the school children thought that a cinema company or a circus party had invaded their village.

Scarcely had I expected that the news would have reached the Thakur Sahcb (the village headman), when I sought an interview with him. To our great surprise and dismay, not only did Thakur Sahcb refuse to receive me, but ordered us to leave his village immediately, bag and baggage, in a truck that he was willing to offer. The bus that had brought us had gone and no other conveyance would be available for another twenty-four hours!

Then my wife sought an interview with Rani Sahcb, and taking with her the letter of introduction she met Thakur Sahcb, and convinced both of them that we were all respectable people and that we did not belong to a circus party but to the university. Later, he became our friend and the next year he relished the fish and flesh that we had brought when Professor Zeuner paid a visit to Gujarat.

In 1953-54 when we excavated at Maheshwar and Navdatoli on the Narmada, my wife had accompanied us and remained with us throughout the entire season. This is one of the most beautiful stretches of the Narmada with a broad expanse and a fine *ghāta* and a towering temple of Śiva inside the old Muslim fort built by Rani Ahalyabai. Besides there are several small old and new temples. On the opposite side, at Navdatoli, there are a number of

prehistoric mounds, still strewn with 3000-year old relics, potsherds, microliths and occasional beads of semi-precious stones and possibly coins of the early historic period.

Since my wife loved solitude and enjoyed roaming from place to place and collecting antiquities she would everyday either cross the Narmada and visit this temple or that or go alone from one mound to another. During one of her visits, she collected numerous beads from Mound IV at Navdatoli. Hence she concluded that there must have been a bead factory on that mound. Since we were busy excavating other mounds, we did not pay much attention to this discovery. But in 1957 when I went to Maheshwar once again, I recalled her discovery and suggested the excavation of the Mound VI to Dr N.R. Banerji, the then Superintendent of Excavation. But he thought that since the Deccan College had already conducted an earlier excavation, we should undertake this excavation also. With what wonderful results—houses and beautiful pottery, some still intact—we excavated from this mound is well known. We spent two long seasons here and would like to be there again.

Likewise Nevasa turned out to be a very rich mine though not a Pandora's Box, as an English friend, unwittingly and mistakenly described it in his *Review of our report*. We had encamped right on the mound, overlooking the river, and close by the Jnanesvar Temple. This was another beautiful site, a short distance from the present town and, hence, a fairly clean mound.

My wife also joined our river surveys in search of the palaeoliths, as she was now fairly well experienced. In one of these surveys, she helped us discover a section with Series II tools, now placed in the Middle Palaeolithic, because of stratigraphical reason. However, there were occasions when because of ill-health or other reasons, she could not

90 accompany me on our expeditions. On such occasions she stayed alone in the large and solitary Bungalow No. 3 at the Deccan College or later in our own house. It would certainly be very trying for a person to live like this for days and months, when not quite well, and so far removed, even at the Deccan College, from other friends. However, she bore these interludes with courage and fortitude. Even at home, I was not much of a company because right from 4 a.m. till evening, I would be reading or writing. Finding me so much engrossed in my work, sitting alone and thinking, she would often remark, "You have married the Muse of Archaeology and not me!" However, she would be reconciled to her lot. I must say that but for my wife's constant care and willing company in lonely places and at home, I could not have been able to accomplish so much.

I was also relieved of the burden of looking after my widowed mother, when my nephew, Ravindra, and my sister-in-law, *Bhabhi*, willingly relieved me of this duty. Hence, from my student days till today, even ordinary family chores have not in any way prevented me from doing my normal work of reading and writing. My sedentary habits would have ruined my health had I not been early in life accustomed to doing some household chores in our Bombay home—such as washing clothes, sweeping floor and so on. I had also formed the habit of getting up early, fetching milk from the *kotha* (local dairy) going down four storeys almost every morning and preparing tea not only for myself but for the entire family. This habit became so much a part of my life that later when students had accompanied me to Junnar and other caves, I would prepare tea not only for myself but also for them. Short visits to the Christian Ashram at Kodaikanal, and Shri Aurobindo Ashram at Pondicherry taught me and my wife the dignity of manual work.

Naturally therefore we never found it difficult to

do all our personal work when we were out on tour. This habit became a positive asset when after retirement we had to look after our own garden, no college *mālī* being available. My wife, in fact, had developed this garden. For when we shifted to our present premises (Sat-chit-ananda) there was not a blade of grass to be found anywhere. The ground was rocky. But when the house began to be built, she gradually transplanted the plants and trees that we had grown during our ten years stay at Bungalow No. 3. Some of these trees were no less than seven or eight feet high. People who saw her carrying these plants wondered how they would survive transplantation. But every plant survived. The barren place has now been turned into a lush grove.

But the 5,000 sq. ft. garden-cum-grove is to be maintained. At first, I began watering with a plastic pipe. This also took considerable time and effort, walking up and down the garden several times. In February when trees would shed leaves and large heaps of leaves would be found scattered in the lawn. "Should I sweep them off?" I wondered. "What would happen, if some one sees me sweeping?" This small vanity I could soon overcome and I regularly started sweeping the nooks and corners of our garden and it appeared therefore always spick and span. This exercise involving at least six hours of work, particularly during summer months, did not in any way distract me from my work. Nor was my writing suffered as is evident from the number of books published during the last four years.

8

Just as I had one or two unpleasant experiences during our exploration tours, so there were some very pleasant experiences as well. One of them I should like to relate.

During Christmas holidays 1940, I had taken four students—Naik, Patil, Mehendale, Bengare—to

92 see the monuments in the Nizam's territory particularly with a view to teaching Bengari how to study the sculptures and images of Ellora. This study formed a part of my planned study of the Deccan monuments dynastywise. Unfortunately the plan could not fructify as the Director of Archaeology did not permit us to carry out the study because he told me that they would themselves carry out the plan. Thirty-six years have passed since then but they were still planning to undertake some such study. No scholar has so far carried out the kind of study I had contemplated. The late Dr Gupte did some work but his was of a general nature.

As usual, my wife had also accompanied me on this trip. Since we did not know anybody at Hyderabad, we had to put up in a small dirty hotel in the heart of the city. There are a number of Gujarati merchants in Hyderabad. As my wife and all of us lodged amidst them, a Gujarati businessman—his name I forget now—inquired as to who we were and what we were doing there. I told him the nature of our mission. He pointed out : "If you are Professor and this lady is your wife why do you not go to Shri Chandulal Dangoria?" So this businessman took me to Dangoria. Shri Chandulal was an engineer in the Improvement Board and was known for his hospitality. He and the members of his family not only welcomed me and my wife but my four students as well. Then he took us round Hyderabad in his car for three or four days. He gave us letters of introduction to his engineer friends at Palampet and other sites.

We were all overwhelmed by Chandulal's hospitality. Since then we have become life-long friends. In fact, he is one of the few friends that we have. Such hospitality has now become a thing of the past. It was quite normal then, particularly in a rich "native" or princely state, when the officers and nobility would be living in large, commodious houses having one or two large guest-rooms.

The guests would then be always welcome. In fact, to have guests was itself the sign of nobility. Now owing to various reasons which need not be discussed here we have become self-centred and hospitality has become a thing of the past.

7

Whether one believes in astrology partly or in full, there is some ground for thinking that my life as well as those of others cannot be purely determined by ourselves. Some positive steps in developing interest in archaeology I must have taken but I believe all these opportunities came one after another according to some pre-determined pattern of which I was not the author. I however could not rest satisfied with this attitude. I was eager to verify astrological predictions, particularly regarding our future through a proper scientific inquiry. I have therefore taken a few steps in this direction.

While the forecast in the *Bhṛigu Saṁhitā* was forthright and unequivocal, two other *saṁhitas*—*Satya* or *Sūrya* and *Saptarshi*—which I recently consulted, had made similar predictions about my life, the last even said that I would discover Lanka. It also said that Lankā was at the centre (*kendra*) of Bharata and not outside! Thus, these so-called *saṁhitas*, if authentic and not fake, as some indeed are, do contain into predictions which would astound anyone. They also make him inquire the basis of this knowledge and the reasons why the knowledge was reduced to writing at all.

The *Nadi Granthas* of the South are similar *saṁhitas*, though I have no personal experience of these books. But I could vouchsafe for their authenticity on the testimony of two of my colleagues. In the South the owner actually hands over the leaf or leaves to the persons concerned saying that he has no further use of them.

94 My experience of the astrologers, though not much, has been equally encouraging. The first one had predicted, as far back as 1939, that a high Government honour would be conferred on me; another said that I would leave behind "imperishable fame", while a famous business man, who happened to be an amateur palmist, looking casually at my palm remarked, as far back as 1938, that I would do "fine work".

Thus, there is little doubt in my mind that astrology, call it by whatever name you like, is a science or an intuitive discipline. As a subject, it is worthwhile investigating and deserving to be put on a more secure foundation, so that it may help us in choosing a proper vocation and thus incidentally save some waste of human capital.

First, we should ascertain whether these are "freak" truths. If not, then it should be broad-based like all true knowledge. It must pass through all the scientific tests that we can think of. We should have a reasonable number of samples from each *samhitā* : *Bhṛigu*, *Satya* or *Sūrya*, *Saptarshi*, and *Nadi Granthas*. These samples should be verifiable. Further, if the *Samhitā* predictions are found reliable we should tape-record these and photograph them also, if possible, for proper study.

Besides we should have a comprehensive list of all the *samhitas* and *Nadi Granthas*, of which some are now in private possession, but a large number is acquiring dust in public libraries of Baroda, Calcutta, Jaipur, Mysore, Pune, and Travancore, as well as in Kashmir and Nepal. The catalogue of these *samhitas* itself would be an independent research project, entailing considerable travel all over India besides expertise and, above all, aptitude. But meanwhile the existing and known *samhitas* could be utilised. From amongst these, the fake ones have to be eliminated. Such fake *samhitas* do exist. I myself was instrumental in detecting one at Pune.

A scientific study of the known *samhitas* and *Nadi Granthas* can be undertaken only with the cooperation of the owners of the *samhitas*. At present, these are regarded as sacrosanct and "untouchable", to be handled and read only by the owners, some of whom belong to old Brahmin families. While the ascertaining of the reliability of these *samhitas* might boost up the business of some astrologers, (though it is already a flourishing business), some other *samhitas* if found to be not so reliable, are likely to be discredited, and thus the owners would lose their business.

The *Samhitā* owners must come forward and allow their manuscripts to be photographed or tape-recorded. Besides we shall also need the cooperation of the persons whose lives are thus proposed to be scientifically studied. Not only should they be willing to help check the readings in these *samhitas*, but permit the use of their personal data so collected. Of course, the investigator would take all possible care in keeping the data confidential, thus reducing the possibility of identifying the persons so studied.

Studies such as these entail considerable expenditure and outside cooperation. Both these might not be easily available. At the Deccan College therefore we have undertaken, at present, a limited inquiry. This has shown considerable promise. Thus we are also studying subjects other than archaeology.

A study of thirty-four horoscopes of teachers, students and technical assistants in our Department of Archaeology has shown that Saturn is the ruling planet of persons who are intimately connected with any aspect of archaeology—excavators, photographers, and draftsmen. Saturn is weak or low if the persons' interests are peripheral. This has nothing to do with the person's status which is ruled by planets like Jupiter and Mars. These again must be in particular houses, such as the second, sixth or tenth from the point of view of profession, and in

96 the fourth and fifth houses from the point of view of education and research. The study of 34 horoscopes revealed that the main ruling planets of those who are connected with archaeology are: Saturn, Jupiter, Mars, and Mercury.

In 14 out of 34 cases (42%) analysed, Saturn was found to be in its exalted *mulatrikona* position or in its own sign namely, Libra, Aquarius, and Capricorn. In 13 other cases (39%) it was found to occupy its friendly signs such as those ruled by Mercury, Venus, and Jupiter. In the remaining 7 cases (19%) it was found to occupy its inimical or unfriendly signs such as those ruled by Mars, Sun, and Moon respectively. However Jupiter, Mars, and Mercury have been found to play their role in relation to Saturn when they are considered from the point of research and excavations. We have thus made a modest beginning in our study of astrology. Not only should the result be broad-based, but we should study horoscopes of others—preferably those of the doctors, engineers and scientists and see whether we can arrive at the same conclusions positively as well as negatively.

The scientific approach while it may prove the truth of astrology and establish it as a fairly reliable discipline would raise other problems as well. Why did these *samhitā* writers or seers make these predictions, about all persons—high and low? Did they derive any earthly benefit? Possibly none. Was it then a purely academic exercise? The aim of astrology should not be to strengthen our fatalism but to find a method of guiding our men and women to select a vocation or a profession for which they are most suited by nature. There are other applications as well, as, for instance, life insurance. Besides many of our superstitions, particularly the one about the New Moon Day—*Amāvasyā*—which is generally thought to be a bad day for the seriously ill can be methodically examined by collecting statistics in respect of the number of deaths occurring on these

My attitude to awards national and/or states as also awards of various academic societies and institutions, was formed by one sentence from *King Lear* which I studied in my B.A. class. The sentence was "Ripeness is all". I had understood the expression in the light of one verse from the *Gita* which is: *Karmanye vadhika karesta ne phalesu kalacana* (you are expected to perform your duty without caring for the fruits). I was told only a few years ago by a Professor of Marathi in the Pune University that Shakespearean scholars do not interpret the line in the way I have done. Anyway *Ripeness in all* has been the guiding motto in my life. Hence I have never attempted to *canvass* for any honour such as presidentship of this or that conference, membership of this or that body in the university or elsewhere. Nor do I canvass for this or that prize. Here I would say that 'canvassing' is different from an inquiry about its nature or requirements for this or that prize. Nor did I crave for the state or national awards. Somehow or other I have always felt or desired—and this may be attributed to some kind of pride or vanity or simply human weakness—that the award should come to me without my prior knowledge. Only then would I derive real joy from an award. This has happened four or five times in my life, but none gave me more surprise than the award of the *Padma Bhushan*.

As I have said earlier, it was predicted long ago, as far back as 1935 by a young teacher, who was an amateur astrologer that some national award like knighthood would be conferred upon me because my horoscope happened to be like that of one of distinguished relatives of Sarla. An amateur palmist had also foretold of a similar honour.

I was, therefore, wondering how and when such

98 prophecies would be fulfilled, when every year on the Republic Day one heard on the radio honours being conferred on this or that person. Four years ago my wife happened to hear such an announcement, and asked me why some such honour was not awarded to me. I said, "I do not know but it is not in my hand to advise the authorities". Then three years ago, around *Diwali* an amateur astrologer friend of mine had come to my house. Before leaving he said, "Some national honour is bound to be conferred on you during this year, because your *Guru* (Jupiter) is exalted!" However, no enquiries were made at the state or national level, which I am told is often done, before an honour is conferred.

In 1974 I left for Kerala to deliver lectures at the Cochin and Trivandrum Universities on the 18th January on behalf of the University Grants Commission. I had already retired as Professor and Director of the Deccan College on 10th December 1973. At Cochin after delivering three lectures, my pupil, John and a few of his students and I left for seeing the megalithic monuments and cave engravings. On reaching the cave in the afternoon, after strenuous walking and most difficult climbing, we found that it was impossible to go further as evening was drawing near. So instead of returning to Cochin, we passed the night at a nearby place. The next day, early in the morning, we left for the cave, climbed it with the greatest difficulty and came back to Cochin late at night. Then we were informed that a trunk call had been made from New Delhi for me. I thought that it should be about some UGC meeting.

Next day—the Republic Day—we left by a jeep for Ernakulam. Here John and I lunched in a modern tourist-type hotel. There was a kiosk where newspapers were sold. I asked John if he could buy an English newspaper. He brought a copy of the *Indian Express*. After going through all other news, I took a glance at the list of awards, and to my great

surprise, I found my name next that of the late Dr Moti Chandra among the people who were awarded the Padma Bhushan. I showed it to John and he also confirmed that there was no mistake. But mistakes do take place. We have experience of our Universities and State Boards of Education when every year at least five mistakes occur when results are declared.

Since I had no previous intimation from New Delhi, until I left Pune on the 18th, I was indeed wondering if there was any mistake! My wonder grew when I reached Trivandrum. The Professor, who had come to receive me, said nothing about the award. Next day also he was silent. I wanted some independent confirmation about the award. This could not be done even at Bangalore. When I reached Bangalore on the 29th Dr Nagaraja Rao, my former pupil and then the Director of Archaeology, met me at the station but said nothing. I was, therefore, afraid of breaking the news to him. Nor did I ask him to find out whether it was true. It was in this mood that I left Bangalore. At Dharwar, however, my suspense was over when Dr Sundara met me with an invitation to a function arranged in my honour.

At Pune a trunk call was first received in the main office of the Deccan College from New Delhi on the 24th or 25th. A second call was received by my wife at my residence, when the person enquired if I would receive the award. She replied that I was not at Pune but she would be glad to receive the award on my behalf, if desired. This news she passed on to the Director, who naturally questioned her about the genuineness of the telephonic message, and asked her to wait till a confirmation was received by a telegram or a letter.

I am reminded of a similar situation when in 1961 or so, our Vice-Chancellor and the Chairman of the council of Management, Prof. D.G. Karve, received a

100 telegram, apparently meant for Dr D.K. Karve, conferring the Bharat Ratna on him. Now the persons, who were handling this affair at New Delhi, should have known the current address of the person on whom they were conferring the highest honour of the nation. The episode is narrated in detail, as it has a little comic aspect but then such are the ways of life.

A similar incident had happened a few years earlier. A Society in Bombay had decided to award me the Dadabhoy Nowrojee Prize of Rs. 3,000. They informed me on an ordinary sheet of paper about this, and also asked me to collect the Prize at Bombay on a certain day. I had never heard of this Society nor of the Prize. But the amount of the prize was fairly large. I wondered if it was not a practical joke! A few months ago the famous Asiatic Society of Bombay informed me that they had decided to award the Campbell Gold Medal to me. The decision was taken more than a year-and-a-half ago, but they had forgotten to inform me!

However, of all the awards which I got, I value most the Bruce Foote Plaque awarded to me by the Anthropology Department of the Calcutta University. As Kalidasa has said long ago that it was always better to receive a gift or get one's wishes fulfilled from persons who are more qualified.

Therefore, I also welcomed the invitation from the Wenner Gren Foundation to participate in the symposium on Urbanization at Burg Wartenstein, in 1960 and then later an invitation to participate in the symposium on homo sapiens at Paris in 1967. I was also glad to receive the invitation to participate in the symposium on the Philosophy of Archaeology at Flagstaff, Arizona and the "Palaeolithic of Asia" at Montreal and Chicago. I also responded warmly to the invitation to preside over the First Maharashtra Itihasa Conference. Likewise I was also glad when I was elected unanimously the President of the

All these occasions gave me real joy. On such occasions I felt that whatever had happened had happened because one intrinsically deserved it. Some of my friends, whose experience has been otherwise, have questioned the wisdom of this philosophy. My reply to this can only be that I had formed the philosophy of my life much before any success came to me, basing my philosophy upon my experience of the first-year examination of the Inter Arts course. Mathematics and physics were my weak points. In the latter I got only six marks in the practical out of 30 in the annual examination. This had really frightened me. Instead of depending upon tips from my friends, I relied on the advice given by Principal Katti the previous year. Intensive reading and writing paid and I secured more than 60 per cent marks in physics and mathematics and a high second class in the aggregate in the Inter-Arts Examination.

8

Here I may also say a few words as to my attitude to prayer, worship of images and God in general. Our family has been traditionally the follower of Vallabhacharya School of Vaishnavism. The principal tenet of this school is to have unqualified faith in Shri Krishna. The images and paintings of Krishna's boyhood are worshipped in various forms requiring complete surrender and offering of everything one has including oneself to the Divine. Moreover the devotee is also required not to worship any other god. Nor should he observe ritualistic fast on Mondays, Tuesdays or Saturdays. Belief in Krishna and Krishna alone in preference to all other gods and goddesses is to be found clearly explained in the *Gita*, but this was re-stated and made a way of life by Shri Vallabhacharya who was inspired by the *Gītā* and the *Bhāgavata*. The one-directional devotion to Sri Krishna made all of us, members of the family

102 particularly, fearless. We did not go to the temple of any other god.

Naturally, from a very early age I had my own niche in which I kept Sri Krishna's painting and worshipped it every morning after bathing. I also read the *Gītā* and knew it almost by heart. The *Bhāgavata* was read daily at home. Now I know that all this was done mechanically, more out of habit than out of devotion. But it did build up in me an unshakable faith in the Divine Force. I always read Vallabhacharya's verse which said, "Do not be afraid of anything, but have faith in me and leave your fears to me."

One day, when I was in the sixth standard, my mother was taken suddenly very ill. At that time I felt like offering my prayer to Vinadhari Krishna at play whose photo we had hung in our office room. My prayer was so sincere, so heart-felt that I had no doubt that it would be answered. The other occasion when my prayer was heard is worth relating. That was some four years ago. I was at that time the Director of the Institute and a private film-maker had planned to make a documentary film about the Deccan College. Since the late Lokmanya Bal Gangadhar Tilak had been the student at the Deccan College, it had been arranged to film the room where he was taught. For this purpose the film-maker had arranged a small function in front of the room. On this occasion Tilak's grandson was to be the chief guest, and the then Vice-Chancellor of the Pune University had previously agreed to be present. The function was scheduled on August 1 at 8 a.m. and the local members of the Council of the Management, Trustees and others had been invited.

However, just two or three days before the function was to take place, the Vice-Chancellor asked me to cancel the function because he thought that he should have been invited as the chief guest and not Tilak's grandson. He felt that it was a downright

I was in a great fix. Considering the great esteem in which Tilak is held all over India, and particularly in Maharashtra, it was indeed ridiculous to cancel the function. So both my predecessor and myself went to request the Vice-Chancellor but we were told that he had left Pune and would not return before three or four days. Apart from the great expenses which the film-maker had incurred, it was difficult to withdraw the invitation.

Not knowing what to do I went to our "bedroom-temple". Here we had installed a fine marble image of Gopala Krishna and a statue of Sri Upasani Maharaj made by my wife when she was student of the Diploma Class in Modelling in the J. J. School of Art in Bombay. Besides, there were photographs of the saints such as Sri Aurobindo, the Mother, Ramana Maharshi, Sai Baba, and Satya Sai Baba about whom we had read and had some first-hand experience.

What was needed was a miracle—a change of heart on the part of the Vice-Chancellor. And it was that I prayed for and my prayer was answered. Just twenty-four hours before the function was to be held, a telephone message came from the Vice-Chancellor saying that he would be present and that I should not cancel the function.

Except the film-maker we had not informed anybody about the cancellation of the function. He and his film unit were staying somewhere at Deccan Gymkhana. So our Estate Manager was sent post-haste to inform him of the latest development. Fortunately he had not left. He came with his entire unit as well as the chief guest. The Vice-Chancellor did come and everything passed off well.

I did not know then but I learnt later that the various Rigvedic gods were nothing but the manifes-

104 tations of Nature. Still later when I studied iconography and particularly Tantric Siddhis I came to know how various idols, some benign and some terrible, were worshipped because of man's fear of the unseen and unknown. Many gods and goddesses were also adored due to sectarian rivalries. As a result, my faith in idol-worship diminished and I gave up the daily worship—called *Sevā*—though I had still faith in the Divine Element.

Neither my father nor any member of our family, had paid obeisance to a saint, though my father during his younger days had a great fascination for Theosophy. However, my attitude changed when I came into contact with Sri Upasani Maharaj of Sakori, then Sri Aurobindo and the Mother and later Ramana Maharshi. After joining the Deccan Collage, during one of our tours we happened to go to Pondichery and Tiruvannamalai. At both places we were much impressed by the emphasis on meditation. The significance of Sri Aurobindo's complete surrender to God was slowly revealed to us in the course of our repeated visits to the *āshram*. The "surrender" is to be practised by devoting all our day-to-day actions to God.

It was at this time (in 1943, to be precise) that we spent some three weeks at the Christian *āshram* at Kodaikanal. Here I was impressed by the way all the work was done by the inmates of the Ashram themselves. Thus in one way or the other our life was being influenced more and more by the abstract spiritual principles.

This was given a more definite turn by Sri Upasani Maharaj when I visited his *āshram* at Sakori. I had participated in *pūjās* both at home and in Vaishnava temples. I like *bhajans* and *kīrtans* to be performed in a quiet way. At Sakori right from 4 a. m. until late at night, excepting a few hours of rest for midday meals, there was some *pūja* or the other and the bells would ring all the time. Though

I participated in these public *āratis* in the beginning, I could not stand these, and once or twice even spoke to Sri Upasani Maharaj about my discomfiture, brought up as I was in the atmosphere of quiet, personal *sevā* at home. He told me that each person had a different background. For a large number of people the mass *pūjā* was good, because it helped them to think of God but meditation and the like was meant for the very few.

This is certainly true. For the common man does require something concrete, some object, some image on which to fasten upon, though it is true that we in India, like the Catholics and some other denominations in the West, have overdone the religious practices. In fact, it is all due to our varied desires and increasing wants and fears. Hence the Buddha was right, when he said one should check one's *vasanas*. Desire will vanish and with it also belief in anthropomorphic gods. Hence he refused to say anything about god because, in the ultimate analysis, god exists only as long as you have a desire.

I think that this was the greatest discovery that the Buddha had made. His was indeed a Realization. I do not think that the Upanishads have put this matter as explicitly as he did. It is this truth which the *Gita* had further elaborated and explained in simple words which have been explained with apt illustrations time and again by our saints. Thus Upasani Baba's repeated insistence on the suppression of *ahamkāra* can be understood if we resolve to do all our manual work ourselves. Once our ego is suppressed, our wants decrease, and as the wants decrease and are gradually eliminated, the final realization—oneness with ourselves—call it god if you will, is not distant. Of course, the final step is the most difficult step. Many saints and *siddhas* have faltered here and having failed got into the stream of *saṁsāra* again. I, therefore, believe in the theory of *karma*, and all the religious paths, high and low, had advocated for its conquest. For each one of us acts and thinks

106 according to one's past *karma* and has to continually strive to get over the bondage of *karma*. If, therefore, I bow before a saint, it is because I feel the need for a *guru* in my spiritual life as much as in mundane life and a saint like Sri Upasani Maharaj who has by precept and example achieved the Divine, can certainly show me the way. And I have seen from my own example that what is needed for success is faith in one's *guru* and hard work. Mere faith does not lead us anywhere.

Archaeology for the Masses

1. *Quarrels and Controversies* 2. *Dr Kosambi*
 3. *Interesting Incidents* 4. *Archaeology for the*
People 5. *Marathi and Hindi Writings*

NORMALLY scholars, I am told, avoid controversies. But I could not and as I said at the outset, I began my academic career with a vitriolic attack made against me by one of my teachers, Professor Shembavaekar as far back as 1929-30. Ten years later, after returning from England, I wrote a paper on "Gujarat Epigraphy" for the *Journal of the Bombay University*. The paper was severely criticised by Shri A.S. Gadre who was then an Assistant in the Baroda Department of Archaeology. I had never heard of this gentleman. Nor did I know that he was going to be the Director of Archaeology in future. Gadre imagined that I was his rival for had I not returned from England with a Ph.D. and that too on Gujarat archaeology! However before publishing Gadre's criticism the Editor sought my reply which I gave. But when the editorial board saw my reply, they thought of dropping both the articles.

Gadre had to come into my contact some ten years later many times in one capacity or the other. He was asked to look after our Gujarat expedition, making all arrangements for camp, food, labourers, and so on. He was very courteous to me though, I think, he was envious of my superior position as

108 the leader of several Gujarat expeditions. We remained friends nevertheless. As the Director of the Department of Archaeology of Baroda he published my report to which he contributed a small preface for which I am grateful to him. Gadre died a few years ago.

There was another scholar from Gujarat, the late A. V. Pandya. Though he was apparently very friendly, he circulated adverse reports about me in Gujarat. Two of them I should like to mention. He said on one occasion that the human skeletons found by us at Langhanj were those of children and hence my conclusion was questionable. He also claimed that the report of the first Gujarat prehistoric expedition was entirely written by him. Naturally these canards had to be promptly contradicted and I had no other choice but to call his bluff in the Ahmedabad newspapers, though there are some scholars who still believe that it was Pandya who had actually drafted the Gujarat expeditions report, not I. As the subsequent development in prehistory in India speaks for itself I need not dilate on this subject.

Pandya died four months ago, and I am glad to say that when I met him last at Vallabha Vidya Nagar and later dined with him, I found that all ill-feelings had vanished. I was so happy that we parted as friends. Not only Pandya but also the small land of prehistorians in distant Bengal, constantly fed by Pandya's adverse reports, had begun to regard me as an upstart. And upstart I certainly was. Had I not written a Ph. D. thesis on 'historic' archaeology and was not prehistory outside the domain of my specialisation?" So when a famous Professor of geography and prehistory from Bengal criticised my views in the *Journal of the Asiatic Society* naturally I had to give a reply. The reply was entitled "Is Soan a Flake Industry?" After the publication of this article no criticism was heard from this quarter. These canards and criticisms however had

no impact on me. I always did my work unconcerned, exploring newer and newer areas, and guiding my students who came from different parts of India, far and near. So when I met this Bengali critic of mine, face to face, in Gauhati, where I spoke on my discovery in Kashmir, I had to ask him point-blank if he would like to comment on my discovery. The Bengali critic kept quiet.

I had my moments of joy as well. One of the greatest joys in my life was when the Department of Anthropology conferred on me the first Bruce Foote Plaque, (of which the late Professor was an active member) in recognition of my services to prehistory. I think this honour was of greater value than what I have received before or after because I got it from my critics who had, as time passed, turned into my admirers.

2

I also think it to be a great honour to be complimented by no less a person than Professor D.D. Kosambi. As is well known to many scholars, he had mercilessly criticised the first edition of my book *Prehistory and Proto-history of India and Pakistan* in the *Times of India*. When I read it, I wrote to him (and also in the *Times of India*) that his criticism was all misplaced. I then invited him to our museum at the Deccan College. After some initial hesitation he came, and was fully convinced about the soundness of my researches. However, he wondered why I had not cared to see his discoveries in and around Pune. I did. At the end of the next day, he said before parting, "I am glad that an archaeologist of your calibre had at last seen my work and also promised to continue to work on them." Though he died soon after this meeting, we at the Institute kept our promise. We also brought out a book which we dedicated to his memory. Thus, one after another, controversies, some of which were purely personal, died down. But given my nature, I cannot avoid

3

Criticisms apart, I had to face many difficult situations during the long course of my field-work. There were times when the workers threatened to boycott the work that I had undertaken. Often no local workmen could be found if the area to be excavated were situated in an agricultural region. Again at times in places where untouchability was practised, outsiders like us were ostracised and denied food, shelter, and even drinking water.

Let me relate a few such incidents. At Kolhapur, among our workmen there was a real *Draupadi*, probably belonging to the Mang or Mihar community. Though very dark, unlike the usual Marathi women, her beauty charmed our labourers. Some of the local male workers began to take liberty with her which I learned later is not unusual among these communities. This had to be stopped, I thought. When the person concerned did not listen to my warnings, I had to dismiss him. But with his dismissal the entire workers struck work. Though this was quite unexpected, I was not frightened. We wound up our equipment and carried them to our camp which fortunately was not very far. Next day we decided to work without assistants in one trench only. At the end of the day, the workers realized their folly and one by one all joined work.

At Akhaj, a village near Langhnaj, and later at the famous Harappan site of Rangpur, and also during our first excavation at Jorwe, near Sangamner, we found that the workers were not available for manual labour. I told my colleague Dr M.G. Dikshit, who was my only companion at that time (1947-48), that we should ourselves start digging with a pickaxe, shovel and *gamela*. The labourers who refused to be hired thought this to be a great fun,

and some of them collected near our one and only trench. But some of the onlookers took pity on us seeing us struggle with a pickaxe and shovel. First one, then another, joined our skeleton party. Within a week, a sizable group of workers—mostly untouchables—who have normally no work at the end of March started working with us joyously. Joyously because whether in Gujarat or Maharashtra or in Madhya Pradesh, Andhra and Karnataka wherever we had excavated our relations with the workers had always been cordial. Not only did we have perfect understanding with one and all but, above all, since one of us personally supervised the weekly disbursement of wages there was no occasion when the labourers could complain that they were cheated or underpaid.

A Hirpura we had a nasty experience. We were only two—Dr Karve and I. Since we know that no local worker could be found, we asked two of our Langhnaj workers to accompany us. Everyone knew me at Hirpura as I had stayed there for a few days in 1941. But now nobody even cared to offer us shelter for a night or offer us cooked food because we had left our cook at Langhnaj. The reason for this total social boycott was that among our two workmen one was a semi-untouchable! The consequence was that after a day's walk along the Sabarmati in search of sections, Dr Karve had to cook in our small room with fuel which had gone wet. Though it is now more than thirty-six years that this unhappy incident had taken place, untouchability is still practised in villages in India.

As I have said in the preceding pages, my health being what it is, I can ill-afford to take liberties with my food or drink. Even an extra cup of tea, I had to refuse when offered on numerous occasions by our hosts. On one occasion when after a long walk from Hodol we reached Dharoi, late at night, with our camp followers and equipment, we found to our great surprise that the only

112 place where we could stay, a school room, had been closed for the week-end. We were advised to find shelter in a garage on the river bank. Unfortunately there was a truck inside the garage which carried kaolin from the local quarry. So some of us had to sleep in the truck, and others lay under it. As it was already quite late our cook gave us what he could cook in a trice which turned out to be *khichadi*, a melange of pulse and rice. I hesitated. Dr Karve, who was a hard taskmaster and a dour disciplinarian hurled a lecture at me. When she did not stop for some time, I quietly remarked, "Dear Mrs. Karve, don't you know, that you are a palacolith and I am a microlith". This was the most apposite simile that I could think of, for in every way she was different from all of us. But I never imagined that this remark would sting her like a thorn. It haunted her that whole night and for many years which I later on came to know when I narrated this incident to M. C. Burkitt, the doyen of British prehistorians who had invited both of us to lunch at his house in Cambridge in 1951-52. Dr Karve then said, "Your retorts are very painful. They directly hit at one's weak spot". Dr Karve was right because two of my ruling stars are Sagittarius and Scorpion.

4

It is said that scholars and scientists love to live in ivory towers. Not only do they not care to share their knowledge with the public, they regard it as sacrilege to gain cheap popularity. This attitude might have had some justification when we held ideas quite different from what we hold today about our duties towards society. Whatever be the reasons of this attitude, I have not cared to find them out. I can speak for myself and say that I do not like to dwell in ivory towers and that I never held back any new knowledge I had acquired or discovered. I had always shared what knowledge I had gained with my colleagues and students and also with the public

I have already mentioned above how I was impelled to write my first research paper on *Kuṇḍamāla* and *Uttararāmacharita*. It was the same desire which made me translate into Gujarati a long article on the Indus Civilization which was published in *Indian Historical Quarterly* as far back as in 1932. It was in this spirit that I welcomed an opportunity to lecture to the children of a village school in Gujarat about our work on the Sabarmati. And when I spoke to them on the history of the pen-knife for some fifteen minutes, my colleagues were indeed surprised to find that a subject like palaeoliths and microliths could even interest the illiterate villagers!

This and other incidents led me to organize exhibitions soon after our excavations were over or even when they were in progress at Kolhapur, Nasik-Nevasa, Ahar, Tripuri, and Inamgaon. I mentioned this idea in a lecture that I had delivered to the Department of Sociology in the Bombay University in 1938. I also wrote an article to this effect which the *Illustrated Weekly* published under the title: "Archaeology for the Masses." In that article I had said that before undertaking the excavation of a site it was our duty to tell the people of that area in their own language why we were excavating and after the excavation was completed it was our duty to explain to them what we had found and what new knowledge our excavation had contributed.

Fortunately, the authorities of the Deccan College—especially our Director and the Council of Management—had no objection to this "new concept of educating" the people at Kolhapur, Nasik and Nevasa, though, unfortunately, my idea cut no ice with the ASI. But outside, my idea caught the imagination of the people. I was indeed surprised when we visited Kalibangan in Ganga Nagar district (Rajasthan). The principal of a local college came running to me and requested me to give a lec-

114 ture in his village, when he learnt that I was paying a visit to the site. However, much I would have wished to enlighten the students and the teachers about the contribution made by the site to our knowledge of the Indus Civilization, I could not think of committing the breach of professional behaviour because this duty rightly belonged to the scholars who had been conducting excavations on that site since 1961.

Is it not a pity that the people in whose area we are excavating should not know what is happening? On the contrary they would be proud of their village or town if they were told that their distant ancestors were not uncivilized as they are commonly made to imagine. Compare the ignorance in Rajasthan with the knowledge that every village school-boy has in Western Maharashtra about his distant past, because we had acquainted them with our excavations through the newspapers, *Sakal* and *Kesari* as well as by distributing booklets about the excavations at Nevasa and Inamgaon.

Hence, we were not surprised, when a fisherman at Kalegaon on the Godavari, an out-of-the-way village in Nagar district, on seeing Dr Ansari and me in his village enquired if we had come in search of fossil bones of animals. He then led us to a site on the river bank where he had seen an odd thing in his childhood. This turned out, after hours of careful excavation, a prized find—one of the most intact specimens which we named *Bos Namadicus*. It is now one of the valued objects of the Indian Museum in Calcutta.

At Nevasa, we had called a meeting of village teachers and given them a couple of pots/herds and explained to them their cultural significance and then told them to look for sites where these could be found. The result was that every year, we got letters from some village teachers and others informing us about the antiquities they had sighted in their villages.

In addition to these site exhibitions, booklets and lectures, I was keen that we should have textbooks on various aspects of archaeology in Marathi. I am glad to say that under the Chairmanship of Professor S. B. Deo, my colleagues at the Deccan College have now written books on art and architecture, numismatics, epigraphy and palaeography in Marathi. Dr Deo himself had written a very exhaustive book on archaeology in general. 115

5

While I wrote with considerable ease in English, and also in Gujarati, the latter being my mother tongue, I never wrote in Marathi. However, after our excavations at Nasik sometime in 1950-51, Dr M. G. Dikshit asked me to contribute an article for his Marathi magazine *Prasad*. This was how I began writing in Marathi. It is not difficult, particularly when one knows Sanskrit, and has learnt to speak Marathi and Hindi from childhood. But this knowledge is not sufficient for writing articles in good Marathi or Hindi. However, I did make an attempt, first in Marathi and later in Hindi. I found that the best way was to dictate in Marathi or Hindi to a person preferably a scholar of these languages. In this way I could easily and quickly explain my thoughts instead of the scholar trying to translate the article into Marathi or Hindi.

Amongst the scholars who helped me and, in fact, encouraged me to write in Marathi, I must mention P. R. Kulkarni. First, he himself started by translating my articles and then he persuaded me to write. In this way several articles were written which I contributed to *Sakal* and *Kesari*. Now this is being done with the assistance of Vasanti Joshi. When *Dharmayug* approached me for articles in Hindi, I contributed several articles with the help of Dr Malati Nagar. Of late, Jetlimal, a scholar from Bikaner, has taken to translating into Hindi on his

116 own my articles published in Gujarati. Thus in one way or another I have never refrained from disseminating knowlege or information about archaeology.

Future of Indian Archaeology

1. Deccan College Museum 2. Language Issue, Cow Slaughter and other allied matters 3. Future of Indian Archaeology 4. New Archaeology 5. Guiding Research 6. Champion of Lost Cause 7. Sanskrit Dictionary.

WHILE exhibitions, that I organized, educated a layman, the exhibits can be useful to a student of archaeology only if they are housed in a museum. That is to say, unless the scholars have access to a museum no real progress can be made in our knowledge of the past. Therefore, to have a museum I began modestly by spreading on my table the potsherds that we gathered from the mediaeval site of Vijayanagar, which I had visited with my students in 1940. When Rao Bahadur Dikshit saw these potsherds, spread out on my large table, which I had inherited from the Satara museum when it was shifted to the Deccan College, he had a hearty laugh and wondered what I was going to do with these potsherds. But perhaps Rao Bahadur Dikshit did not realize that if these were systematically collected, they would tell us the shapes of vessels which people used including the kings and princes of yore. At present, we know next to nothing about their domestic life. We displayed copies of these potshreds in large wall show-cases as well as the estampages of inscriptions from the caves of Junnar taken by Naik and Patil. Thus the true copies of 2000-year-old ins-

118 criptions were exhibited in our college which were indeed useful for teaching palaeography to our M.A. students.

However, within two years, these and other large show-cases had to make room for the palaeoliths, microliths, and bone implements from Gujarat, and the various maps and river sections, of which excellent coloured copies were made by Amrit Pandya. Also exhibited were human skeletons and large animal fossils from Langhnaj. I was indeed lucky to find enough space to house them as well as furniture, large and small show-cases and tables, as if specially ordered in anticipation of our finds from Gujarat. Very few institutions—colleges and offices of the Survey—have this facility. The furniture that we had acquired, though not quite or exactly suitable for artistic or scientific display, was good enough for display of the exhibits.

During those years the Deccan College had neither the means nor the money to buy museum equipments. But when we shifted to our old premises across the river, we dug at Nasik and carried out our river-surveys in Andhra and Karnataka, antiquities of all kinds began to pour in. These had to be stored and a few of them were required to be exhibited.

Help came from one of the then Education Ministers, Shri Dinkarrao Desai. Paying a visit to our museum and seeing it crowded with antiquities, he immediately sanctioned an *ad hoc* grant of Rs. 15,000 for new show-cases. Unfortunately, these had to be designed like the old furniture to go well with the furniture that we had. Thus, as far as the show-cases were concerned, I could not get modern or up-to-date show-cases as some of my younger colleagues and students desired I should. But the old furniture could not be ignored. In the museums in England, for example, not everything was destroyed during the Second World War and when new addi-

tions were made these had to be designed like the old ones. In Germany, for instance, they could start afresh, building and furniture having been completely destroyed, and thus made their museums look completely modern. When we shifted to the Deccan College campus, our Department was allotted the old Physics Hall. This was turned into museum. Here also was created a miniature display of our excavations at Nevasa, showing the evolution of cultures from the Stone Age to the 18th century—a cultural history of no less than 2,00,000 years. 119

How I got the idea of doing this may be related in the following. It had been my constant desire to tell people, both educated and uneducated, the way how we archaeologists find buried things one over the other and how these finds can be visually represented in a museum. Our combined section at Nevasa, including the naturally exposed cliff on the river, and the excavated portion up to the black soil was more than 70 ft. in height. No building mediaeval or modern, is easy to come across which has this height from floor to ceiling; we have to make do with what we had. The old Deccan College buildings built in Gothic style had a ceiling 25 feet above the floor. Our task was to reduce proportionately the height of the natural and habitational layers.

The next question was who was to do this and how. I spoke to many of my colleagues and students. Then Joglekar of the Survey, an experienced photographer suggested that we should imagine one wall surface of the building as the excavated trench at Nevasa, and then show there all the characteristic objects together with the layers. Joglekar knew one A. A. Dalvi, a modeller in the Prabhat Studio at Pune. He was a past master in the art of modelling and had catered to all tastes. To him this task would not be all difficult. Moreover, being a trained modeller, he would be able to reduce all the objects to their proportionate sizes first on paper and after-

120 wards by making models in plaster of Paris and painting them as required. Thus, a novel method of displaying a high section from excavation, spanning hundreds of thousands of years, was found out. It is now a great draw in our museum. Many foreign archaeologists—French, German, Russian, and American—have sought permission to photograph this, because, as I understand, few museums in the world have hit upon this method of showing the evolution of material cultures.

Later, when a new building was constructed with the University Grants Commission funds, on the opposite side as the new structure was so planned that this section could become the central theme of the museum. In this building the adjoining wall space was used for the display of maps based on the reconstruction of historical geography from the inscriptions. Museum display now-a-days is a work of art. But a museum which displays objects from several fields of archaeology is difficult to design. Antiquities go on piling up every year, and some of these have to be displayed for the immediate purpose of study by our teachers, students, and scholars. Hence, museums, like the one in the Deccan College, are essentially “study” museums where students can have a visual knowledge of the subject they are learning in their respective institutions. I consider myself fortunate that I could get such a section prepared, as also the various maps, by a team of draftsmen who made drawings of antiquities—stone tools and pottery in particular—as well as life-like reconstructions of all aspects of life, such as the potter of Navdatoli and the Navdatoli village itself some 3000 years ago. And these were done by artists who had no formal qualifications; not even a basic degree or diploma in art. And even if a qualified artist came thirty years ago I did not have the means to employ him. For except the usual Departmental grant and the *ad hoc* grant we got for research from donors and the Universities, the Deccan College had no funds for employing an artist on a permanent basis. Hence,

as the need arose, funds were found out and artists were appointed on job-work basis. Perhaps in Pune alone, persons appointed on a fixed salary of Rs. 100, or so, could be found, who would work sincerely and conscientiously, often beyond office hours in the college as well as on the field. When, however, the University Grants Commission established a department and the Government of Maharashtra also sanctioned funds for permanent appointment of a photographer-draftsman, then all those artists who were appointed on job-work basis were put on permanent cadre. As a result, we did build up a very devoted team of artists. What was true of the photographer-draftsman is also true of our office staff—stenographer, clerk-cum-accountant and other employees. There was never a day when they would not turn up for work on holidays if they were asked to. It is in this spirit that we had all worked.

We ought to remember that one does not acquire knowledge for self-glorification, for writing dissertation or for getting lucrative jobs. That idea I had given up as soon as I joined the Deccan College. Thus when I was invited by Sir V. T. Krishnamachari, when he was the Dewan of Jaipur, to become the Director of Archaeology in Jaipur on a handsome salary I politely refused saying that I had prepared plans of research which could be executed only in a research institute like the Deccan College. Later, the same plea I had put before the Vice-Chancellor of the Maharaja Sayajirao University, when I was invited to go there as Professor of Archaeology on double the salary I was getting at the Deccan College. A still more tempting offer came from Calcutta with the offer of a car.

To all these invitations and others, not so expressly made, my one reply was that at the Deccan College I had unlimited scope for work which I knew I would not get elsewhere. We had built up a good library and a fairly good museum of original

122 antiquities. Above all, there was appreciation of our work as is evident from the reports of our activities and discoveries and the way scholars and laymen came to listen to our lectures which is rare in Bombay, Surat or Ahmedabad, though perhaps not at Baroda. I have always felt that in lie money and status alone are not significant. What one needs to sustain ones spirits and interest in one's work is some appreciation. That quality one still finds in Pune.

2

I have always felt that historians and archaeologists must play their part in the life of the nation. They cannot remain merely passive onlookers. They should speak out on the strength of the special knowledge they have acquired. I felt this very acutely when there were riots in Tamil Nadu, when the Government of India tried to introduce railway tickets written in Hindi only ! On the basis of historical evidence gathered from inscriptions from the third century B. C. to 1200 A.D., I pointed out how the language of the court, that is, of administration, was never the language of the masses at any period in Indian history and that it was illogical to make Hindi the only official language in India. I also pointed out that English could never be driven out from India, for it was no longer the language of the erstwhile British rulers. It had become a world language. I again reiterated the point in my convocation address to Pune University. When the speech was published in the *Times of India*, it was appreciated all over India and reproduced in other journals.

Likewise, the attempts to force the Government to stop cow-slaughter were, I thought, not right. For at no time, in the long history of India was cow-slaughter completely stopped. It could not be enforced even in a Hindu State, by king like Kumara-pala who was a great patron of Jainism, and who had issued a proclamation banning slaughter of

animals but only on three days in a fortnight. This article, though very much criticised by orthodox people—my friends and foes—had a salutary effect. It was later reprinted in *Seminar* with footnotes and references.

The border riots between Maharashtrians and Kannadigas in Belgaum and around, and the riots in Gujārat and Madhya Pradesh pained me. If the Maharashtrians and Kannadigas fight and burn each other's houses, how we can teach history to our children I wondered. Who will regard Pulakeshi II, the Western Chalukyan King as the greatest seventh-century king! Or who will regard Rana Pratap or Shivaji as a national figure? On occasions like these, we seem to forget all our history and all our religion. In ancient India there were geographical, political and linguistic barriers. The Buddhist *bhikshus*, for example, roamed throughout India freely without having to suffer social or political ostracism. It is this which permitted the South Indians to go to Badri Kedar and the Gujaratis and others to Kanyakumari and Puri. If Indian archaeology and history teach us anything, it is the underlying cultural unity of India which our linguistic or religious frenzy tries to destroy. Therefore, it is our duty as historians and archaeologists to foster this cultural unity.

Love of truth should be the guiding principle in any branch of research and no less in history and archaeology. Since, I love truth and propagate it, I am very unpopular among many scholars, saints, priests and even laymen. My study of the epics and the Purāṇas and other traditional literature have told me that the issues over which we often fight are not the issues that are to be found in our epics or the Purāṇas. These are interpolations. I had not intended to be an iconoclast, nor am I self-appointed critic of the century-old beliefs of our people, but the distortions of truth I hate.

When my article on the cow-slaughter was published many so-called spiritual leaders and others sent threatening letters and telegrams. I remember when my views on the *Rāmāyaṇa* and the *Mahābhārata* were published by the press all over India, a lower functionary from the National Chemical laboratory at Pune came searching for me at the Deccan College, and asked me if what he had read about Rama and Kṛishna was all wrong. How can one answer searching questions ? I gave him what I had written in Hindi and Marathi on these subjects. He seemed to have been satisfied for he did not meet me since then.

On these subjects there is certainly great scope for telling the truth. When I wrote articles in English or Hindi which were read by a friend in Pune who was himself a great scholar and who knew the *Bhāgavat Purāṇa* by heart and often recited the *Rāmāyaṇa* and performed *Harikirtanas*, asked me why I had said such blasphemous things about Rama and Sita as, for instance, Sita's pouring of one hundred pots of wine to propitiate the river Kalindi when she wanted to cross this mighty river at Prayag or that in *āshrama* of Bharadvaj, at Allahabad, soldiers of Bharata were lavishly treated with wine and women because they refused to go either to Ayodhya or to Chitrakuta ! He was pacified when the definitive edition of the *Ayodhyā Kāṇḍa* was placed before him. Being a good student of Sanskrit, he had little difficulty in going through the relevant sections. He then said, very apologetically, that he had read so often the whole of the *Rāmāyaṇa* but he never thought what he was reading was repugnant to the occasion and was something interpolated. Like him there should be many reputed scholars who have not cared to read the whole of the *Rāmāyaṇa* critically.

Those reading my autobiography might be curious to know what in my opinion is the future of

Indian Archaeology. If the truth is to be told without any embellishment, since I have watched the activities of the archaeologists at close quarters in several states and universities as also in the Archaeological Survey of India, I must say that the future of archaeology in India is very bleak indeed ! Through the centuries in India the purse string of knowledge has been held first by the Kshatriya oligarchy and then later by the Brahmin clerics. Later when the heads of the states, the *jāgīrdārs* and *zamīndārs*, came to power the lower echelons in the departments and in the Archaeological Survey of India as well as the teachers in the universities, barring a few exceptions, have had little freedom to plan and execute their plans of studies. Almost all of them are expected to carry out the work assigned by the so-called "head". It is this person—the headless "head"—who arrogates to himself all knowledge and hence all power. Unless he approved no report could be published. Very often without doing any work and just because he has happened to secure the grant and permission for the exploration, or excavation the head would insist that his name must be associated with the actual work. He sees to it that his name is mentioned first and often the head omits the names of his colleagues who have been working for years and who may have done all the work but are gracious enough and do not mind if their names are mentioned in the footnote. But many protest.

The result is that almost everywhere numerous, small and big, reports of excavations or explorations lie unpublished, while there are cases when reports have not been prepared at all. One Head, because he could not get the report prepared, had the temerity to tell me that the assistants who helped him to excavate, lack training in the art of writing reports. How does one get training except by writing? Whether in a university or in a state department, the Head must, particularly if he is himself not qualified to write the report, allow his assistants to do this work, and get it published in the name of his assis-

126 tant. Unfortunately this has become a matter of prestige. The Head is supposed to be omniscient. He alone can write a report, though in practice, all the donkey work at various levels is done by his assistants. The Head merely puts his signature or at best summarises the contents of the report.

The practice began with Sir Mortimer Wheeler. But it had some justification in Wheeler's case while there is none in the case of his successors who are hardly fit to hold the candle. But they proudly strut about declaring that such-and-such work was done under their direction and that so-and-so had contributed this-or-that account. I had to fight against this pernicious practice for the last twenty-five years. Two years ago when I could not bear this any longer, I had to say in an open meeting of the Central Advisory Board of Archaeology that the *zamindari* system in archaeology must be abolished lock, stock and barrel. There was a hue and cry. I was told that some heads rushed to the chairman (minister) and told him that I should not have been allowed to say what I had said. Fortunately there was no emergency at that time, otherwise they would have thrown me in jail.

What I have said makes unpleasant reading. But I am destined to speak the truth even if it is unpleasant. Unless a person like Wheeler—who is born once in a century—once again brings fresh air blow into our universities, state departments of archaeology and in the Archaeological Survey of India, the future of archaeology in India is bleak. Or else, the authorities will have to take a broom and blow away the cobwebs from the brains of these August bodies. They have to do what they have done for bonded labour and farmers and others who for centuries were under the clutches of the money-lenders. If freedom is given there will be no frustration and the teacher in a university or an assistant in an Archaeology Department will have the incentive to do original work and, above all, try and

When the history of archaeology, anthropology, sociology and linguistics comes to be written in India it will be said that what my colleague Dr Karve and Dr Katre and I did could not be done because we had plenty of freedom to plan and execute at the Deccan College, though our means for nearly twenty years were very slender. The freedom that we enjoyed, we shared with our assistants and students, thus allowing them to develop according to their capacities. Thus each one of my pupils who joined me as an assistant first, and then became a lecturer, has now made a name in his own field of specialisation in India and abroad. As long as the spirit of freedom prevails an institution will continue to grow.

Though the future of archaeology appears to be bleak, a way must be found, and things will surely improve if the changes that I have been envisaging since 1964 are introduced. As a member of the Wheeler Committee, I had suggested that the functions of the Archaeological Survey should be clearly defined. One wing should look after conservation or preservation of monuments; the other wing should devote itself to research. At present both these functions are so much mixed up that research—excavation and exploration—and, particularly, the writing of the reports are neglected.

Not less than twenty-five big and small reports on the work done since 1960 are still pending publication. I cannot blame the officers of the Survey. Two things come in their way: First, though an officer might have done an excellent excavation, say at Kalibangan, or carried out a very promising exploration, say in Rajasthan, routine office work does not allow him to prepare the report. This is primarily because conservation is thought to be the all-and-end-all of the Archaeological Survey of India.

128 Secondly, the transfer of the officials. An officer may have done an excellent piece of work on the site but since he has to be transferred or promoted he has to abandon the excavation or exploration of that site. This is how with numerous projects undertaken by the officers all over India were nipped in the bud. While the Archaeological Survey of India is doing an excellent job in the domain of conservation, the same cannot be said about excavation.

Some of my pupils, after they joined the Archaeological Survey of India, were burdened with so much routine work that no time was left for research. And if this happens year after year then even the best scholar in the world will rot.

Likewise, if the universities wish to undertake excavations and explorations as the Dacca College has been doing since 1939, then they have to have two categories of teachers: teachers who will do teaching at the under-graduate and post-graduate level, and teachers who will do some teaching at the post-graduate level but their main job must be confined to regional surveys and small and large-scale excavations.

It is in this way alone that the sites like Kausambi could be properly excavated by the Allahabad University or Hastinapur by the Kurukshetra University and similar sites in Bihar by the Patna University. Both Baroda and Nagpur Universities have followed the example set by Pune and they have published reports whatever explorations or excavations they have done in the course of the last two decades. The Universities in Andhra, Karnataka and Tamil Nadu have to follow the same plan.

Thus there is hope. If these suggestions which are based on my experience of the last thirty-seven years are implemented, if fundamental changes are effected in the working of the Archaeological Survey of India and in the departments of archaeology in

the various states and universities, and if freedom of action in planning, excavation and writing is given there is no reason why the members of the staff cannot achieve a great deal in the actual work of exploration and excavation.

No longer should the head—whether he is the Director-General of Archaeology or the Director of Explorations, Excavations or a State Director of Archaeology or the head of a University or a professor of Eminence—arrogate to himself the credit due to his assistants. Such freedom alone can dispel the present gloom of frustration which prevails in archaeological departments throughout India.

As for the future plan of work at the Deccan College, I may say here a few words. It should be clear from my account how the various branches of historical archaeology in which I was interested, came to be developed. Prehistory or proto-history was initiated because it was so willed, not because I had thought of it. These departments in the Deccan College are working fairly well, each one discharging his duty of teaching and conducting research work to the best of his ability in his own specific line of specialization. Just as each federating unit or state in a federal republic goes on doing its routine work, thereby contributing to the health and wealth of the centre, in the same way at the Deccan College for the solution of complex problems, such as settlement patterns of the Neolithic and Megalithic cultures in South India, it will be necessary for each sub-department not only to contribute its expert knowledge, but even its funds, if large funds are scarce or are not available. It must not be forgotten that at present the Deccan College is the only institute which is working according to a plan and if some large, national and international problems are to be solved then each department of the college is expected to do its bit. I made this suggestion while I was the head of a department of the Deccan College and I put the suggestion in writing because

130 some members wanted me to indicate the future line of work. However, I have no desire to tie the hands of the present head or any future head and I must leave the things as they are—*jase asel tase*, as Sri Upasani Baba has taught me.

4

I have discussed elsewhere that some fifteen years ago, scholars, particularly young Americans, have been talking of New Archaeology, doubting the wisdom and methods of the veterans of the earlier generation. As usual, some of our young scholars were caught by this blizzard of controversy and attacked some of us in a similar way. In order therefore, to learn their, particularly the American, point of view, I decided to acquaint myself with their aims and methods. I found to my surprise that some of those I had already anticipated in 40's when I was working on the temples of Gujarat and collecting blades and other implements from Navdatoli. But an American student who was at the Deccan College told me that I had not conceptualized these methods and aims. This may be so. But I have always found from my experience that, what is essential, is the mastery over one's material whether it be stone tools or temples and once you have mastered your facts you know how best to interpret the available data. Unfortunately, the fashion today is to avoid the first and concentrate on the second leading one to making gross errors of interpretations of the artifacts.

As far as the other aims and goals of new Archaeology are concerned, after a careful study of these so-called more advanced methods, I have pointed out in my D.N. Majumdar lectures on "New Archaeology, Its Scope and Application in India" and to what extent we can adopt these. The adoption of these aims and methods requires more hard and exacting work in the field. This unfortunately our young and old scholars are not prepared to do. As

for the Americans, I must say that all their "fads" and theories are preceded and followed by most painstaking and exacting work.

131

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"Have I been successful in finding where the Aryans had settled in India?" Though a straightforward answer cannot be given, we now know where to look for them. Bal Gangadhar Tilak saw them in the North Pole, Sir Mortimer Wheeler found them at Harappa and Mohenjodaro, Prof. Lal thought they had settled at Hastinapur, and I discovered them at Navdatoli. The Aryans are always playing hide-and-seek game with us. But the game has to go on for sometime to come.

As these last lines are being written, I came across an article in the *Readers Digest* of October 1976, about the benefits of meditation by Dr Herbert Benson. Dr Benson is an Associate Professor of medicine at the Harvard Medical School, and Director of the hypertension section of Boston's Beth Israel Hospital. I had previously read some of the important articles on Maharshi Mahesh's transcendental meditation and had also undergone a brief course of training. Scientific tests have proved that even twenty minutes of meditation, twice a day, by repeating the word *Om* would calm ones nerves and reduce blood-pressure. However, the effect of this practice will last as long as one continues it.

But it is often forgotten that if one continues to meditate for a few months, then very probably it will become a part of his life. Moreover, if such a meditation, which is purely and solely undertaken for physiological needs, is directed towards spiritual ends, as the Indians were told to do from time immemorial, one can well visualize the benefits of this meditation for oneself and the world. It is this aspect that the seers in India and elsewhere have been emphasising over and over again. In fact, if

132 we give a spiritual or divine direction to the actions in life, then certainly a greater and truer equality will prevail in the world. That will be real communism or socialism.

It is often asked how I could guide so many students and write on so many varied subjects. The explanation is very simple. There was always a desire to learn something new which interested me, and also simultaneously a desire to share that new knowledge, however significant or insignificant, important or unimportant it may be, with others. For I have instinctively felt that knowledge is like a flame; you light it and it spreads; conceal it and it dies. Of course, this has one draw-back, and that is, I cannot keep any knowledge secret which is the custom with some scholars, and particularly with the heads of the Archaeological Survey of India. Of course, this tendency to acquire and share knowledge with others is not common even among my own pupils and colleagues. I remember many occasions when I had to coax or scold some pupils because they would hold back some information which they possessed. We all forget why Dattatreya is worshipped today, and particularly on Thursdays, because he was always keen on learning even from the meanest and the lowest like ants and prostitutes in order to pass that knowledge to others. This has been beautifully described in the eleventh *skandha* of the *Bhāgavata Purāṇa*. It tells us that before one becomes a good teacher, one must be a good pupil.

With regard to teaching and guiding my pupils, I have always taken into consideration their background—social, financial and educational—in details of each pupil who came to me for guidance. No pupil was asked to work on a subject on which I had personally not worked or thought or written. There was no leap in the dark, as is often the case with many guides who without any personal experience of the subject simply leave the students to their fate. Two instances of such callousness I

By 1950 the Deccan College had acquired a reputation as a centre of prehistoric research. Hence students were sent here from various universities in India for training. At that time Sir Mortimer Wheeler had just left India. He had severely criticized the unplanned work in Indian archaeology since its inception and particularly after 1924. He had, therefore, emphasised the need of problem-oriented archaeology.

The word 'problem' was then very much in the air. I must cite an instance. A Professor, who had little experience of research in prehistory, gave one of his first Ph.D. students the problem of microliths and that is because the student or the teacher's assistant had collected exactly 100 microliths. He was therefore supposed to write a thesis on these. The student remained at the Deccan College for more than six months. During this period we made him acquire the necessary background, and asked him to participate in our prehistoric expeditions. The poor student did all this at his own expense and I was glad that he was a sincere student. Not only was he prepared to undergo all kinds of hardship, but was also intelligent. So, after his training, he realised that the problem of his 100 microliths could not be solved simply by classifying and re-classifying and making drawings of these microliths !

These microliths had to be put in their space-time context. To do this he must excavate—even in a small way—some sites, where these microliths were picked up exactly as we had done in Gujarat in 1941. Unfortunately, neither his teacher nor the university would help him financially as the Deccan College had been doing, since it became necessary in India, unlike Wheeler's method in England, for the students to pay for their boarding and lodging while on an excavation tour. Luckily, the student belonged to a good middle-class family, and his

134 father had no objection to his spending Rs. 1,000 or so on a small excavation. After completing the excavation this student came once more to the Deccan College, this time to write out the thesis. Since he was not registered at Pune University, but elsewhere, he submitted the thesis for the Ph.D. degree to that university.

The matter did not end here. The university asked me to evaluate the thesis as an external referee and also to take his viva. Both were wrong, and undesirable steps but a greater shock was in store for me. Just when I was about to ask the student to explain the stratification, the teacher apologetically told me that he had not checked the stratification in the field. At least this much was expected of the teacher since the site of the excavation was not more than one hundred miles away from his university. Since I knew the student well enough having seen his work in the field and also in the laboratory, I had no hesitation in declaring him fit for the Ph.D. Later, the teacher became an 'expert' in prehistory and got his promotion.

While I was indeed glad that a new centre of prehistoric research was coming up, I was sorry the way the things were managed. So the next time when this trick was repeated elsewhere, I had to put my foot down, and brought it to the notice of the U.G.C. In this case the interesting thing was that the student "defected". He refused to go back to the university from where he had come. But he had paid the fees and filled up its terms in that university. So in his own interest I advised him to submit the thesis to that university. Fortunately the Vice-Chancellor appreciated my point of view, and much against the rules of the university nominated me the internal referee and appointed a panel of external referees to adjudicate on the thesis.

Both these incidents, which started as "small problems", are actually symptoms, of deep malice

from which the universities are suffering today. It is next to impossible that the U.G.C. or any other government agency can completely rid the universities of these foul practices. But some improvement might take place, if some norms are strictly and impartially implemented irrespective of the position or status of the teacher. We have just now heard how a British scientist manipulated results of his experiments and misled the entire scientific world. Of course, some of my younger colleagues did not like or appreciate my views of sharing of knowledge. They are of the opinion that what we learn by way of excavation or exploration is meant for personal aggrandizement.

In 1961-62, we dug at Ahar, close to Udaipur. Here particularly the house-plans that were found were identical with those which are still found on the foot of the excavated mound of Dhūlkoṭa in the village of Pala. This village is predominantly of the Bhils. Naturally the presumption would be that probably the early settlers of Ahar, some 4,000 years ago, were not Aryans or some foreigners but the aboriginal autochthons. However, this presumption can be proved or discarded only if a proper, systematic ethnographic study of the Bhils at Pala and in the vicinity of Ahar is carried out. And for such a study we must have students preferably with specialisation in anthropology. After Malati Nagar had completed her anthropological study, she wanted naturally to compare her results with the archaeological finds. Those were still being studied and not fully published. And the problem was, as is always the case in Indian universities and in the Archaeological Survey of India : "How can the unpublished material be utilized by persons other than those who participated in the excavations ?"

On this and similar questions I have always taken a very liberal view. Here Wheeler's example inspired me. He had sent me pieces of glass bangles found by him in Taxila excavations for my study of

136 the antiquity of glass bangles in India. So I thought that there was nothing wrong if Malati Nagar utilised our material. For such a study alone would help us to know who the Aharians were. One cannot get to know it merely by describing the pottery.

6

There were a few occasions in my life which made me protest against authority, even against the highest in the land to see that justice was done. In almost all cases success has crowned my efforts. The first is the case of Dr Vale. He was one of our students in linguistics. After getting his Ph.D., he had joined the Education Department of Bombay State. One day, sometime in 1953-54, I met him on the Lloyd Bridge in Pune. Seeing him downcast and sullen I enquired as to what had happened and why he was looking so worried. He told me briefly that he was without a job. I asked him to see me at the Deccan College.

The case of Dr Vale is typical of all government departments. He was an education inspector and posted in Baroda in the Old Bombay State. For some reason he was suspended and enquiries were made against him. Though a year or two passed and the enquiry did not reveal anything against him, the suspension continued. As if this was not enough the education department issued orders that Dr Vale should not be employed by any educational institution. The whole thing appeared to me fishy and most unjust. I, therefore, asked Vale to bring his file to me. I studied the case, and found that the government were completely unjustified in suspending him and issuing the orders as they had done.

I asked Dr Katre if Vale could not be given some post in the dictionary department at our college. He was willing, but the then Director of Education, Dr Bhandarkar, objected saying that Dr Vale

should first withdraw the case against the government. This Vale would certainly do provided the government withdrew the unjust restrictions against his re-employment. This was done, and Dr Vale joined our Dictionary Department and retired only a few years ago.

Dr S.N. Ojha's case was of a slightly different nature. For the last twenty-five years or so Ojha had been serving as a lecturer in Gujarati, and in 1970 he applied for the position of the senior lecturership in the Ferguson College. Seniority in a college or the university is governed by certain rules and procedures. The university accordingly had appointed, what was then called, the Placement Committee to which committee the principal of each college had to send his recommendations. Though Dr Ojha's seniority was established, for some reason, the Ferguson College did not give him the senior grade. I therefore, represented the matter to the Pune University as a member of the Executive Council. In spite of several meetings with the principal, who was also a member of the Executive Council, nothing happened. Ultimately in protest I tendered my resignation to the Chancellor (Governor) from the membership of the Executive Committee. Thereupon the Executive Council once again considered Dr Ojha's case, and finally directed the Ferguson College authorities to implement its decision. Of course, by getting the senior grade Dr Ojha did not gain financially but had the satisfaction of seeing that justice had been done to him. But the matter did not rest there. *Kesari*, the famous Marathi newspaper in Pune, tried to represent the case of Dr Ojha's apponents to which a reply had to be given by me through its columns. In both these cases, I did not suffer personally, though the newspaper controversy projected my personality, in a different capacity.

So far, I was known only as an archaeologist. Now I was taken to be a zealot. Another incident brought me directly in conflict with the Vice-Chance-

138 llor. According to the rules of the Deccan College, the Vice-Chancellor of the Pune University is also the Chairman of the Council of Management of the Deccan College, the director of the college occupying a lower position.

It so happened that when Dr B.P. Apte became the Vice-Chancellor, he appointed one of the Executive Council members, who then happened to be his fast friend as the liaison officer between the Deccan College and the University. This gentleman borrowed a number of books from the Deccan College library. When he did not return the books, the Librarian was in a fix. Ultimately, he sent a reminder. This displeased the Vice-Chancellor, who immediately sent for the Director, Dr Katre, and the Librarian, Shri Belsare on some pretext. Calling the latter inside his chamber, he scolded, the Librarian for his impudent action. Poor Belsare came out of the room completely downcast. Throughout his twenty years of service as the Librarian he never had such an experience. He related to me the entire episode when I rejoined my post as the Joint Director after the termination of the Nehru Fellowship.

Belsare's story so much upset me that for a moment I could not decide what steps to take against the erosion of 'our independence'. Ultimately I wrote to the Vice-Chancellor that when the Librarian had sent the reminder to his friend, he had just done his duty. I wrote to him saying that he had once sent even a second reminder to the Chancellor who was the Governor because it was the duty of the Librarian to do so. He should not, therefore, regard this reminder as a personal insult. Had we not taken this step we would have failed in our duty. He should, therefore, advise his friend to return the books and we would be glad to lend him again the same books when required. The books were thus returned and the matter ended there.

However, I had to fight against the same Vice-

Chancellor when he said that the advance to the Centre in Archaeology given by the University Grants Commission was given to the university, and not to the Deccan College. I pointed out to him politely that the report of the Expert Committee had clearly mentioned that this assistance was to be given to the Deccan College, because during the last twenty years or so it was the Deccan College which had been doing work on prehistory and proto-history. When the Vice-Chancellor persisted in his interpretation, I had to approach the U.G.C. to clarify their position. After a full and fresh consideration they reaffirmed their earlier decision.

I must say here emphatically that the decision was taken by the U.G.C. on the merit of the case. I had not met any member or the secretary of the U.G.C. to canvass our case. I mention this because there were some people, even at the Deccan College, who thought that I had brought pressure on some members of the U.G.C. This is not my habit nor is it in my nature. Neither for Dr Vale nor for Dr Ojha I had approached any body in the government, or any member of the Executive Council.

I had not approached anyone even when there was a threat of physical injury on my person. The occasion for this was apparently a very small incident.

Since 1963 we have been staying in a house built by me on the campus of the Deccan College called "Satchidananda". To the west and south-west of our house the entire area was occupied by the military. Now there are a few buildings here but before 1972 there was none. Occasionally a few tents would be put up. In this no man's land a milkman had built a hut. Then one day in the month of February-March, the military put up a barbed wire fence around this area. While doing so they left no opening for the milkman to go in or come out. When I returned from the college in the evening, the milkman who was standing outside this fence, was pleading

140 with the sentry to allow him to get inside the fence to have his cup of tea which his wife had prepared. The scene was pitious. I wrote immediately to the military authorities that what they had done was neither just nor right. They should have left a passage for the milkman's family or if they did not want him to stay there he should have been legally evicted. No reply was received. Then on the Hanuman Jayanti Day at about 11 p.m., all of a sudden, we heard the sound of bomb-like crackers, and the jawans running about in the field. This did not stop but was repeated again at 1 a.m. and 4 a.m. My wife and I and the inmates of the ladies' hostel which is adjacent to this plot thought that the jawans were celebrating the Hanuman Jayanti! But no, these bomb explosions continued day after day and then it soon dawned upon us that the commanding officer was deliberately getting this done with a view to harrassing me and all the neighbours. One day, their officer came to see me in my house with his orderly. He threatened me for interfering in their affairs. I told him that the military had enormous resources, and if they chose they could easily put up a hut for the milkman and his family somewhere nearby.

Though the officer initially talked rather haughtily, he appreciated my point of view and left. The matter did not rest there. At night my bedroom window overlooking the Deccan College Road was stoned and the glasspane broken. From that time we had to keep the window closed. The person-in-charge of this area was so much enraged that when we were away for a week at Sakori, the military tried to close my usual entrance by putting up a barbed wire fence. They had no right to do so because it was a public road.

All these left a bad taste in my mouth and I felt that the military everywhere whether in Germany, England, Pakistan, America or India are blind to reason. Might is right is their philosophy of action.

Night-bombing continued for a month-and-a-half but I did not protest except writing to the Police Commissioner for the daily nuisance that was caused to me and the entire neighbourhood. But he seemed to be helpless, as the culprits were military officers.

Then a friend reported the matter to Jayantrao Tilak, a member of the Rajya Sabha from Pune. And Tilak conveyed the information to Sardar Swaran Singh, who was then the Defence Minister. When he inquired into the matter he was informed by the local officer that some urgent military manoeuvres were being conducted, and these would stop only at the end of the month! While all the earlier incidents had not caused much physical and mental anguish to me or to my wife, the encounter with military had been very trying, because for more than a month we could not sleep peacefully.

I was made to take still more serious step during the Emergency. In June 1976, the son of a very close relative and friend of mine was arrested and taken to the Amaravati Jail. A well-known cardiologist, he was attached to the St. Georges Hospital. It was alleged that he was in league with a smuggler who was kept for some time in the hospital. This was a rude shock to the old parents and his young wife and children. When I learnt about this I went to see the family at Santa Cruz in Bombay. At that time they were all trying to get their son released through the intercession of friends who had once held very high position in the government.

I told them before leaving that the only thing I could do was to write to the Prime Minister, Indira Gandhi. I had never met her personally but I found her very courteous, because whenever I wrote, within days I would receive an acknowledgement or a reply. This was rarely the case with the other dignitaries, except the late Governor of Maharashtra, Shri Ali Yavar Jung. He too replied to my

142 letters promptly and showed a keen interest in my work.

So, when my friend's efforts failed, I volunteered to write to the Prime Minister. I had written to her thrice. Though some personal risk was involved in this, I thought that this was the least that I could do as an educationist and a culture-historian for a cause that was surely just. I wrote to the Prime Minister in one of the letters, that even in olden times when kings like Aurangzeb reigned with absolute power, any aggrieved person once a month could approach the Emperor in the open durbar. During the Emergency, I wrote, she had left no way at all to exercise one's elementary human right. When I wrote this I was told that my letter might not be appreciated, and that I might be clapped in jail.

Meanwhile elections were declared and the Emergency was relaxed. So my friend, in fact a cousin, thought that if he approached the Chief Minister he could now intervene and get his son released. So he again wrote to me on March 16 to write to the Prime Minister. This time, however, both my wife and I thought that it was no use writing to her and I quoted the famous verse from Kalidasa's *Reghuvamśa*: *Yāncā meghā varmadhigune nādhame labdhakāmāḥ* meaning, it is better to have our wishes remain unfulfilled by good persons than to have them fulfilled by bad ones.

I asked my friend to wait until March 24. And then, as the world knows, a new page in history was written. The Emergency was lifted, and my nephew and thousands of others like him, all innocent souls, were released.

7

I might also mention the small part that I played in the compilation of the Dictionary of Sanskrit on Historical Principles. This dictionary, unique of its

kind, and the largest, if completed even in 100 years, was started originally by Dr Katre with the nucleus of the staff of the Department of Linguistics in the Deccan College. Subsequently it was taken over by the Government of India and regular grants followed every year. Grants were also made available by some universities and the UNESCO. Further help came when the University Grants Commission opened an advanced centre of linguistics in the Pune University which was located at the Deccan College. Thus, since its inception in about 1947-48 until Dr Katre retired in 1970, the Dictionary Project was going on with the financial help from several quarters.

But when Dr Katre retired, and later went over to the United States, and some of the sources stopped giving financial help there were doubts if the project could continue. The Government help was most vital. Naturally, the staff was very much worried, because if the Dictionary Project stopped then they would be without employment.

The most important decision I had to take as the Director of the Institute was about the continuance of the Project. I called a meeting of the department and assured its members that under no circumstances should the project be discontinued, though I could not guarantee employment to all the members. In archaeology, as in linguistics, the Deccan College had gained international recognition and in the latter field, it was due primarily to the Dictionary Project. So this Project, I thought, could not be given up as some of our critics desired. My critics even went to the length of saying that there were no scholars in India who could handle the project and so it must be dropped. This was a great slur on Indian scholarship, particularly after a century and more of Sanskrit studies and specially when in Pune and Baroda, our scholars had completed the gigantic task of compiling the critical editions of the *Mahabharata* and the *Ramayana*.

144 Though I knew that the preparation of the proposed dictionary required scholarship and an entirely different nature of set-up, I felt that given devotion, dedication and determination the editing work of the dictionary could continue and a couple of volumes could be published in our life-time.

These qualities Dr Ghatge possessed in no small measure. Hence I had recommended his name to Dr Katre when the problem of a Joint-Director had arisen a second time. I had told him that if any one was likely to discharge the responsibility of editing the dictionary, it was he. This suggestion displeased some members of the Deccan College, but I am glad to say that my dream was partially fulfilled after ten years when the late President Fakhruddin Ali Ahmed released the first facsimile of the dictionary. The Second was released by the Prime Minister Shri Morarji Desai. Though it would be foolish to expect the completion of the gigantic project in this century, there is the hope and satisfaction that on the foundation so well laid, our successors at the Deccan College would find the means to raise the infrastructure, if they show the same spirit as Dr Katre and Dr Ghatge did.

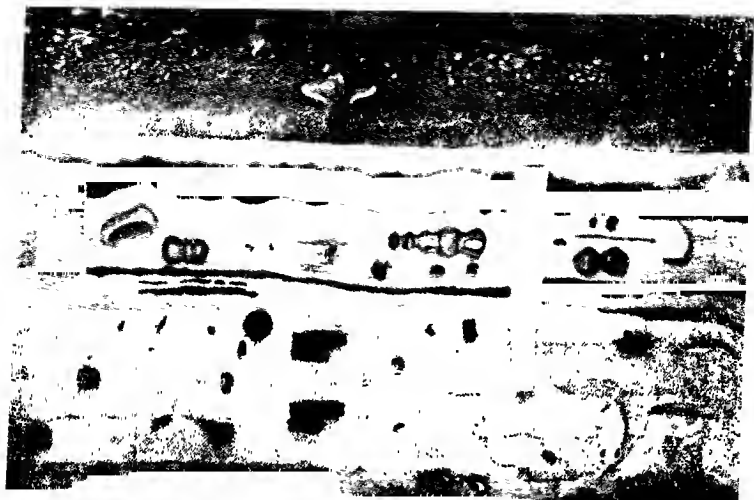
I should also like to add that with the division of the Archaeological Survey of India into Research and Conservation, one may expect that the two departments might help the growth of scientific archaeology in a planned manner. Here again we must have some devoted and dedicated persons ; otherwise such organisations can achieve very little. The Archaeological Society of India of which I happen to be the chairman since its inception has had several annual meetings and very fruitful discussions, particularly at Varanasi, Nagpur, Kurukshetra Chandigarh and Jaipur. The Prehistoric Society which was founded only four years ago has now enlarged its scope of activity and has changed its name into Indian Society for Prehistoric and Quaternary Studies. This is welcome. And it is hoped that it



Prof. Sankalia with students, colleagues and members of the staff, Indian as well as foreign,
at Navdatoli excavations Camp, 1957-58.



Prof. Sankalia with his wife, colleagues and members of the staff at Hirpura
Explorations Camp, Gujarat.



Reconstruction of the excavated levels at Nevasa,
Maharashtra, exhibited in the Central Hall of the
Museum of the Deccan College, Pune



Prof. Sankalia with Prof. R C Majumdar and others
at the Tripuri Camp, 1967



Prof. Sankalia with Mrs. and Mr. Genscher, Minister for Interior, Federal Govt. of Germany, at the opening of a wing of Indian Art in the Museum of Oriental Art, Berlin-1971.



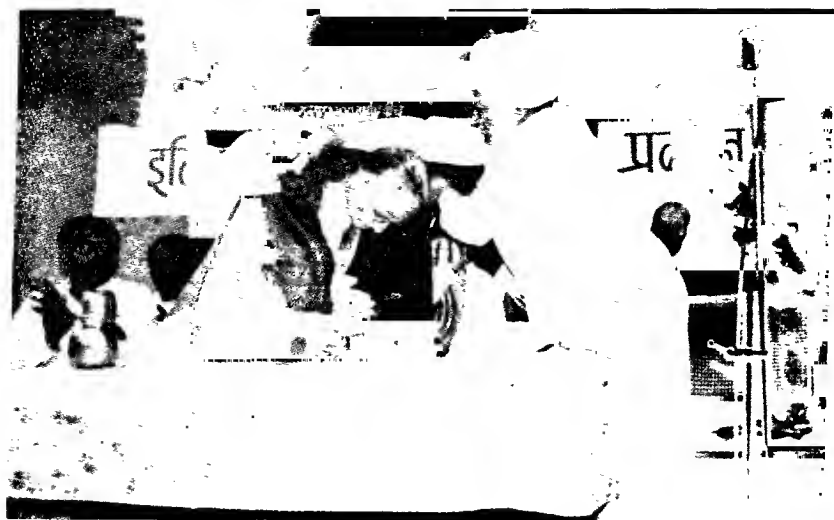
Prof. Sankalia with Sir Mortimer Wheeler on the dining table in a Seminar held at Patna. Prof. Sankalia is showing a laboratory-produced black-and-red ware bowl to Dr. Wheeler



Prof. Sankalia with Prof. F. E. Zeuner during an exploration trip on the Sabarmati-1949



Honour of the City being conferred on Prof. Sankalia
by the Chairman of the Ahmadnagar Municipality, 1973.



Prof. Sankalia receiving the Gold Medal from Gujarat
Sahitya Sabha, Ahmedabad, 1967.



President V. V. Giri conferring the title of Padma Bhushan
on Prof. Sankalia, 1974.



Prof. Sankalia, the explorer. On the Narmada
at Maheshwar, 1957-58

will very soon justify its new name. The former Society publishes *Paratattva*, an annual bulletin, while the latter Society publishes *Man and Environment*, again an annual bulletin.

With regard to the journals, which these Societies are publishing, I am frankly not happy. India is a poor country and an academic journal does not have many subscribers. Under the circumstances it is certainly difficult to run a journal, whether it be a quarterly or a six monthly or an annual publication. Besides we have also a dearth of good writers and discerning editors. Most of the editors are merely collectors. There are very few editors who have the time, energy and capacity for editing. And if any editor blue pencils the writer, it has often been reported, feels offended. Hence the normal practice is to send the articles straight to the press.

We shall have a journal of international standard when the following four conditions are fulfilled : 1. The articles for at least three consecutive numbers must be collected in advance; 2. Irrespective of the personality of the writer, the articles must be published after the Editor has carefully gone through them; 3. competent and dedicated editors must be found out; and 4. there should be sufficient funds for publication. Unless these conditions are fulfilled, it is no use having a number of journals. Very often these journals live for a short time and die a premature death.

Before I close I have to relate a very unfortunate event at the Deccan College. I had thought that though intrigues and infighting had become a common feature in our academic life all over India today, it was absent in my department. Very often I had chosen this or that person to fill up a particular post, after that person, though not necessarily brilliant, had shown some aptitude and promise so that a particular line which I wanted to develop at the

The question of 'succession' had also been easily settled. However, a thing that I had feared when I became the Director began to take an unpleasant (ugly) shape. Owing to purely historical reasons, we have two separate departments of archaeology. One, the older one, belongs to this Deccan College; and the other was started by the University, after it was founded in 1948. Both are located at the Deccan College, in a building, which belongs to the University, but on a land which is owned by the Deccan College.

For a long time I looked after both the departments. But according to the University regulation, the Head of a University Department can be a Reader or a Professor appointed by the University. Thus I ceased to be the Head of the University Department, and one of my very young pupils who was appointed a Reader, became the Head. However, since both the departments had been developed by me, and were manned by my pupils, nothing untoward happened, though, in fact, legally there were two separate departments.

This dyarchy was undesirable, I knew. And I had often tried to get it abolished, and I nearly succeeded when the Government itself had issued a G.O. to that effect that the University Department of Archaeology and Linguistics be merged with those of the Deccan College. Unfortunately, a few students of the Old Deccan College did not like this move and got the merger stayed.

Meanwhile, I retired in 1973. The person who succeeded me felt this difference acutely because there were two distinct authorities. Naturally, like myself, he could not exercise *de facto* authority over both the departments, though in age and experience, he was the senior of the two. More undesirable consequences of 'mine' and 'thine' occurred. I tried

But when the University, under the U.G.C. development plan, decided to have a Professorship in archaeology the matters came to a head. Though by discussing with the U.G.C. Committee, it was decided to have a Professorship in prehistoric archaeology, the University decided to have a Professor either in prehistory or historic archaeology.

The University asked me to lay down qualifications for both the posts and also suggest a panel of experts. This I did. What happened afterwards I do not have first-hand knowledge. For some reasons, the panels which I had prepared were not placed before the Executive Council. The panel which was prepared later was heavily loaded in favour of the non-university candidates. Of the three experts, only one had some general acquaintance with prehistory, the other two were students of historic archaeology and not competent to sit on judgement for such an important post.

Obviously, there was an attempt to rig the panel, so much so that when one of the experts arrived, and set his foot on the railway platform he was literally whisked away, least he should meet any other person (like myself). The interview was indeed nominal.

When I saw all these things happening before my own eyes, I literally wept, not because the Department, which had been developed from nothing, was being torn into pieces, but because for exercising authority all the worst aspects of human nature had gained ascendancy. I realized, as I had never realized before, that of all the bad aspects of human nature—*kama*, *krodha*, *mada* and *ahankara*—the last two were the worst. Hence Shri Upasani Baba had repeatedly advised his followers to subdue feeling of 'I' and to always accept an humble position.

As I write the last line of this autobiography, I look back with wonder and think of the seers who had written the *samhitas* long ago and so correctly predicted about my interest in archaeology and the recognition that I would get. According to them, I was born to be an archaeologist. And I did become one. What sort of powers did these seers have to peer into the future ?

Author's Bio-data and Books

BIO-DATA OF DR H.D. SANKALIA

Professor Emeritus, Deccan College, Pune 411 006.

1. **Name :** HASMUKH DHIRAJLAL SANKALIA

2. **Date of Birth :** 10-12-1908, Bombay

3. **Academic Carrer :**

M. A. 1st Class in Ancient Indian History, Bombay University, 1932.

LL. B. Bombay University, 1931.

Ph. D. Archaeology, London University, 1937.

4. **Positions held :**

(a) Professor of Proto-Indian and Ancient Indian History, and Head of the Department of History, Deccan College, 1939-73.

(b) (i) Director (Acting) Deccan College 1956-59.

(ii) Jt. Director, Deccan College 1960-68.

(iii) Director, Deccan College, 1970-73 (Dec.).

(c) Professor-in-charge of the Department of Archaeology, University of Poona, 1948-68 and later.

(d) University Grants Commission Teacher 1974-76.

5. **Present Position :**

(a) Professor Emeritus in Archaeology, Deccan College (since 11th December 1973—)

(b) Hon. Director, Tilak Maharashtra Vidyapeeth, Poona, (since August 1975—)

a. **Awards :**

(a) Prizes

- (b) Fellowships
- (c) Honorary Fellowships
- (d) Public Honours.

(a) *Prizes :*

- (i) Bhagwanlal Indraji Prize, Bombay University, 1933.
- (ii) Silver Medal, Royal Asiatic Society, Bombay, 1944.
- (iii) Gold Medal, Gujarat Sahitya Sabha, Ahmedabad, 1967.
- (iv) Dadabhoy Naoroji Prize for 1968, Bombay.
- (v) The Chakrabarty Silver Medal, Asiatic Society, Bengal, Calcutta, 1972.
- (vi) The Robert Bruce Foote Plaque, Department of Anthropology, University of Calcutta, Calcutta, 1974.
- (vii) Om Hari Prize, South Gujarat University, Surat 1975.
- (viii) The Campbell Memorial Gold Medal for 1974, Asiatic Society, Bombay 1977.
- (ix) Prize of Rs. 1,000/- Govt. of India for the Marathi Book on Introduction to Archaeology, 1971.
- (x) Prize of Rs. 1,000/-, Gujarat Govt. for the book in Gujarati on Archaeology and the Ramayana, 1976.

(b) *Fellowship :* Jawaharlal Nehru Fellowship 1968-70.

(c) *Honorary Fellowships & Memberships.*

- (i) All India Sanskrit Academy, Lucknow, 1974.
- (ii) Ethnographic and Folklore Society of UP, Lucknow 1974.
- (iii) Haras Institute, St. Xavier's College, Bombay 1977.
- (iv) Honorary Member, Indo-Pacific Prehistory Association, Canberra, Australia, 1976.
- (v) Indian Society for Pre-historic and Studies (ISPAS) India, 1977.

(d) *Public Honours :*

- (i) *Manṣaptra.* by the citizens of Maheshwar, Madhya Bharat State, 1954 (for excavations at Maheshwar and Navdatoli).
- (ii) *Manṣaptra* and *Shawl*, by the Ahmednagar Municipality, Ahmed-

nagar '1973' (for bringing to light the history of Ahmednagar District from the dim part—by excavations and explorations at and around Nevasa.

(iii) Manapatra and Shawl, by

Poona Municipal Corporation, Poona 1974.

(iv) Padma Bhushan for distinguished work in Prehistory and Proto-history in India, New Delhi, 1974.

7. Presided over :

- (i) The First Madhya Pradesh Itihas Parishad, Bhopal.
- (ii) The Section of Archaeology and History, Gujarat Sahitya Parishad, Calcutta, 1961.
- (iii) The Section of Archaeology, Gujarat Research Society, Ahmedabad, 1963.
- (iv) First Maharashtra Itihas Parishad, Bombay 1963.
- (v) The First Archaeological Society of India, Varanasi, 1968.
- (vi) The Second Archaeological Society of India, Patna 1969.
- (vii) The Section of Prehistoric Industries in the Symposium on "Homo Sapiens and Environmental Changes" organized by the UNESCO, Paris, Sept., '69.
- (viii) The Section of Anthropology and Archaeology, 57th Indian Science Congress, Kharagpur, 1970.
- (ix) Gujarat Itihas Parishad, Dwarka, 1971.
- (x) The Conference on the Lower Palaeolithic Cultures of Asia, and South-East Asia, Montreal and Chicago, IXth Anthropological and Ethnographical Congress, 1973.

8. Membership of Learned Societies :

- (i) Elected member of the Permanent Council of the International Congress of Prehistoric and Proto-historic Societies, 1961—
- (ii) Nominated Honorary Member of Institute, Italiano Di Preistoria E Protohistoria, Italy, 1962—
- (iii) Elected Honorary Fellow, Archaeological Society of India, 1968—
- (iv) Life Member of the Asiatic Society, Bombay—
- (v) Life Member, Bhandarkar Oriental Research Insti-

tute, Poona.

- (vi) Life Member, Linguistic Society of India.
- (vii) Life Member and Chairman of the Archaeological Society of India.
- (viii) Member of the Advisory Board of Archaeology :
 - (a) Government of India 1955-1975.
 - (b) Government of Maharashtra 1955-1974.
 - (c) Government of Gujarat since 1964.
 - (d) Government of Madhya Pradesh 1966-74.
 - (e) Government of Uttar Pradesh since 1969.

Nominated as a Member of :

- (i) The Archaeological Delegation to the U.S.S.R. in 1963-64.
- (ii) Cultural Delegation to Yugoslavia in 1966.
- (iii) Government of India Delegation to the International Congress of Orientalists, Ann Arbor, Michigan, U.S.A. August 1967, and Paris, 1973.
- (iv) Advisory Editor of *World Archaeology*, published by the Southampton University, U.K.

9: Excavation & Explorations :

Invited by the Director General of Archaeology in India to conduct excavations and explorations in 1941. Since then the following sites have been excavated, and numerous explored all over India, excluding those in Kashmir, and near Kanyakumari, Tamil Nadu.

EXCAVATIONS AT

Gujarat

1. Langhnaj	1942, 1944-49, 1962-63
2. Akhaj	...	1947-48
3. Valasna	...	1947-48
4. Dwa Rangpur	1947-48
5. Dwarka	1963
6. Somnath (Prabhas)	...	1972, 1975-77

Maharashtra

1. Kolhapur	...	1945-46
2. Jorwe	...	1946-51
3. Nasik	...	1950-51

- | | | |
|-------------|------|------------------|
| 4. Nevasa | | 1954-56, 1958-61 |
| 5. Chirki | ... | 1969-70 |
| 6. Inamgaon | ... | 1969-71; 1972-74 |

Madhya Pradesh

- | | | |
|--------------|-----|------------------|
| 1. Maheshwar | ... | 1953-54 |
| 2. Navdatoli | ... | 1953-54; 1957-59 |
| 3. Tripuri | ... | 1966 |
| 4. Koyatha | ... | 1968-69 |

Mysore-Karnataka

- | | | |
|---------------|------|------------|
| 1. Sangankal | | 1947; 1965 |
| 2. Tekkalkota | ... | 1964 |

Andhra

- | | | |
|----------------|-----|------|
| 1. Betamcharla | ... | 1969 |
|----------------|-----|------|

Rajasthan

- | | | |
|------|-----|---------|
| Ahar | ... | 1961-62 |
|------|-----|---------|

10. Lectures Delivered

(A) Extension Lectures

- (i) Kannada Research Institute, Karnatak Dharwar, 1955.
- (ii) Punjab University, Chandigarh, 1960.
- (iii) Banaras Hindu University, Varanasi, 1965.
- (iv) Saugar University, 1967.
- (v) Marathwada University, 1967.
- (vi) Nagpur University, 1968.
- (vii) Andhra University, Waltair 1972.

(B) National Lecturer, University Grants Commission

- (i) Delhi University, Delhi 1974.
- (ii) Jawaharlal Nehru University, Delhi, 1974.
- (iii) Gujarat Vidyapeeth, Ahmedabad, 1973.
- (iv) The University of Calicut, Calicut, 1974.
- (v) Karnatak University, Dharwar, 1974.

(C) Memorial Lectures

- (i) Thakkar Vassonji Memorial Lectures, University of Bombay, 1944. (Six lectures on the *Historical Geo-*

graphy and Cultural Ethnography of Gujarat).

- (ii) Bhagwanlal Indraji Memorial Lectures, University of Bombay, 1960. (Six Lectures on "*The Prehistory and Proto-History of India & Pakistan*").
- (iii) First Heras Memorial Lectures, 'St. Xaviers' College, Bombay, 1960 (*Indian Archaeology Today*).
- (iv) Thakkar Vassanji Memorial Lectures, University of Bombay, 1965 (Latest contributions and the Pre-historic and Historic Archaeology of Gujarat).
- (v) Rao Bahadur Gaurishankar Ozha Lectures, Sahitya Samsthan, Rajasthan Vidyapeeth, Udaipur, 1969. (Three Lectures "On Early Man and his Successors in Rajasthan").
- (vi) Dr D. N. Majumdar Memorial Lectures on New Archaeology, "Its Scope and Application to India" under the auspices of the Ethnographic Society, Lucknow, 1974.
- (vii) Heras Memorial Lectures, St. Xaviers College, Bombay, 1974. "On Prehistoric Art in India."
- (viii) Bhaitaibhai Memorial Lectures on "Prehistoric Colonization in India" at Vallabh Vidyanagar, 1974.

(D) *Hon. Tagore Professor.* The M.S. University of Baroda, 1960-65

11. Publications :

- (i) Independently (ii) Jointly
- (ii) Independent Publications (Books only).
- (A) *Original Research—Exploration & Excavation*
 - (a) *Investigations in the Prehistoric Archaeology of Gujarat*, Baroda, 1946.
 - (b) *Excavations at Langhnaj*, 1944-47, Poona 1964.
 - (c) *Mesolithic and Pre-Mesolithic Industries at Sangankal*; Poona 1966.
- (B) *Original Research—Collections of Data and Interpretation.*
 - (a) *The University of Nalanda*, Madras, 1934; 2nd Revised Edition, New Delhi 1973.
 - (b) *Archaeology of Gujarat*, Bombay, 1939.

- (c) *Historical Geography and Cultural Ethnography of Gujarat* (Study of Place and Personal Names from Inscriptions) Poona, 1949.
 - (d) *Indian Archaeology Today*, 1964.
 - (e) *Prehistory and Proto-history of India & Pakistan* Bombay, 1963.
 - (f) *Ramayana : Myth or Reality* : New Delhi 1973.
 - (g) *Prehistory and Proto-History of India & Pakistan*, Revised Edition, New Poona, 1974.
 - (h) *New Archaeology : Its Scope and Application in India*, Lucknow, 1977.
 - (i) *Prehistory in India*, New Delhi, 1977.
 - (j) *Prehistoric Art in India* (In Press).
- (C) *Critical Interpretation (Gujarati)*.
- (a) *Archaeology and the Ramayana*, Ahmedabad, 1973.
 - (b) *The Dawn of Civilization in Undivided India*, Ahmedabad, 1977.
- (D) *Booklets and Primers*
- (a) *Introduction to Archaeology*, Poona, 1965.
 - (b) *Stone Age Tools, Their techniques and Probable functions*, Poona, 1965.
 - (c) *Indus Civilization* (Gujarati), Bombay, 1967.
 - (d) *Mahabharat and Ramayana—Fancy or History ?* Bombay 1977.
- (E) *Joint Publications (Report on Excavations)*
- (a) *Excavation at Kolhapur*, Poona.
 - (b) *Excavations at Nasik and Jorwe*, Poona.
 - (c) *Excavations at Maheshwar und Navdatoli*, Poona, 1955.
 - (d) *From History to Prehistory at Nevasa*, Poona, 1960.
 - (e) *Excavations at Ahar (Tambavati)* Poona, 1969.
 - (f) *Chalcolithic Navdatoli*, Poona, 1971.
 - (g) *Excavations at Inamgaon* (In Press).

158 Research Papers :

N. B. P. before the name of the article stands for 'Popular'.

Archaeology General :

- P. 1. 1938 'Archaeology for the masses', *Illustrated Weekly of India*.
- P. 2. 1938 'Gold for a Merchant Prince' *Illustrated Weekly of India*.
- P. 3. 1939 'Archaeological Exploration in Gujarat' *The New Review*. pp. 363-368.
4. 1940 'The Story of stone of the Great Rennunciation of Neminatha', *Indian Historical Quarterly*. Vol. XVI. pp. 314-19.
- P. 5. 1940 'Buddhism is Kathiawar', *Buddha Prabha*.
6. 1942 'Cultural Significance of the Personal names in the Early Inscriptions of the Deccan', *Bulletin of the Deccan College Research Institute*, Vol. III, pp. 340-91.
7. 1943 'Notes on Cultural Geography and Ethnography of Gujarat', *Journal of the Gujarat Research Society*, Vol. V, No. 4 Oct. 1943 pp. 1-3.
8. 1945 'A Brief Summary of Studies in Historical Geography and Cultural Ethnography of Gujarat', *Journal of the Gujarat Research Society*, Vol. VII, No. 4 (Oct. 1945) pp. 147-63.
9. 1947 'On the Origin of Gurjaras', *Journal of the Gujarat Research Society*, (April & July) pp. 166.
10. 1947 'Origin of Bombay' *Journal of University of Bombay*. Vol. XV, pt. 4, Jan. 1947, pp. 1-4.
11. 1950 'Cultural Significance of Saddle Guerns', *Journal of the Anthropological Society of Bombay*, (1950) pp. 1-5.
12. 1957 'Rasbha of Adinatha', *Jaina Antiquary*, March-April, 1957.
13. 1957 'Saddle Querna and Stratigraphy', *Journal of Royal Asiatic Society*, pp. 209-12 (with S. B. Deo).
14. 1957 'Imported Mediterranean Amphorae', *JRAS*, pp. 207-208.

- P 15 1958 'The Snake in Indian Mythology' *Bhavan's Journal*, Vol. V, No. II (Dec. 28, 1958) pp 57-61.
16. 16. 1958 'Houses and Habitations through the Ages', *Bulletin of the Deccan College Research Institute*, Vol. 20 (1-4) pp. 137-63.
17. 1960 'Lata, its Historical and Cultural Significance', *Journal of the Gujarat Research Society*, Vol. XXII, No. 4 '88 (Oct. 1960) 325-335.
- P. 18. 1962 'Archaeology of Poona and its surroundings', *38th All-India Medical Conference Souvenir* (Poona 1962) pp. 6-12.
- P. 19. 1962 'An Archaeologist's Suggestion to Universities', *Anthropology Exhibition Souvenir, Social, Science Association*, Madras, July 1962, pp. 69-72
- P. 20. 1963 'The Origin and Development of Writing', *Pushpanjali*, Vol. I, No. 2, Dec. 1963, pp. 95-98.
21. 1963 'Mahismati and Maheshwar,, *Journal of Indian History*, Vol. XLI, pp. 337-48.
22. 1963 'Archaeology and Tradition', *Indica*, Vol. I, No. I. pp. 3-18.
- P. 23. 1963 'Report on Dwarka Excavations', *Times of India*, 19. 5. 1963.
- P. 24. 1963 'Dwarka in Tradition and Archaeology'. *Times of India*, 2. 6. 1963.
- 25 1964 'Antiquity of Modern Dwarka or Dwarka in Literature and Archaeology', *Journal of the Asiatic Society of Bombay*, (Dr. Bhau Daji Special Vol.) 1964, pp. 74-84.
26. 1964 'Traditional Indian Chronology and C-14 dates of Excavated sites', *Journal of India History*, Vol. XIII, Part III, Dec. 1964, 635-650.
- P. 27 1964 'Radio Carbon Dating in Archaeology', *Science Reporter*, Vol. I, No. 10 (1964) pp. 358-61 and 367.
- P. 28. 1964 'Evolution of two Ancient Civilization', *Times of India*, 11. 10. 1964.
- P. 29. 1965 'Art in Pottery', *Pushpanjali*, Vol. II, Dec.

- P. 30. 'India's Language', *Times of India*, 3. 5. 1965.
31. 1966 'Review of Environment and Archaeology', *Current Anthrology*, Vol. 7, No. 4. 1966, pp. 501-14.
- P. 32. 1966 'Puranas and Archaeology', *Bhavan's Journal Annual* Vol. XIII, No. 2, Aug. 4, 1966.
- P. 33. 1966 'Recent Excavations and Past Legends of India', *Conspicuous* No. 2, 1966 (*Quarterly Journal of the India International Centre, New Delhi.*)
34. 1966 'Archaeologi in India during the year 1965', *INDICA*, Vol. 3, Sept. 1966, No. 2, pp. 85-94.
- P. 35. 1966 'Socio—economic and Geographical Background of Khajuraha', *Journal of Indian History*, Vol. XLIV, No. 130, April 1966.
36. 1969 'Problems in Indian Archaeology and Methods and Techniques and Plans to tackle them', *World Archaeology*, 1 (1969) pp. 29-39.
37. 1970 'The human and Functional Approach in Archaeology', Presidential address, *57th Indian Archaeological Congress*, Section of Anthropology and Archaeology (Kharagpur), 1970.
38. 1972 'Early man and his Environment', *INDICA*, Vol. 9, pp. 1-13.
39. 1972 'The Progress of Man', *INDICA* Vol. 9, Sept. 1972 pp. 69-82.
40. 1973 'The Beginning of Civilization in Rajasthan', *INDICA*, Vol. 10, 1973, pp. 1-24.
41. 1973 'The Beginning of Civilization in Madhya Pradesh', *Journal of Indian History*, 1973. pp. 25-56.
- P. 42. 1973 'Excavations in Maharashtra', *Lokrajya*, Feb. 73.
43. 1973 'Indian Archaeology Since Independence', *BDCRI*, Vol. XXXIV, 161-68.
44. 1976 'Heras, The Archaeologist', *INDICA*. Vol. 13, pp. 3-12.

Sanskrit

45. 1966 'Kundmala and Uttararamcarita', *Journal of*

- the Oriental Institute*, Baroda, Vol. XV, 1966, pp. 322-34.
46. 1973 'The Ur (Original) Ramayana or Archaeology and the Ramayana' in *Indogentaguns-1971*. Ed. by Herbert Hartel and Voeker Mueller pp. 151-60, Wiesbaden.
47. 1974 'A Hyper Critical Study of the Ramayana', *Prachya Pratibha* Vol. II, No. 2, pp. 1-13.
48. 1976 'Archaeology and the Ramayana', (Full and revised study of the subject), *Prachya Pratibha*, Vol. IV. No. 1, pp. 1-21.

Epigraphy

49. 1936 'Short Notes : The word 'Satram' in the Gadha (Jasdan) Inscription of Mahaksatrapa Rudrasena, year 126, or 127 and a note on the Kstrapa inscriptions from Andhau, Cutch', *Journal of the Bombay Branch of the Royal Asiatic Society*, No. S. Vol. 12, (1939), pp. 104-106.
50. 1937 'The Superious Gurjara Grants of the Saka years 400, 415 and 417', *Journal of the Bombay Branch, Royal Asiatic Society*, N.S. Vol. XIII, pp. 21-22.
51. 1937 'Inscriptions of Gujarat—An Epigraphic Survey', *Journal of the University of Bombay*, Vol. VI, Pt. I (July 1937) pp. 75-86.
52. 1939 'XXII the Century Gold Gilt Copper-Board
1940 Inscriptions and Sculptures from Nepal', *Bulletin of the Deccan College Research Institute*, Vol. I, No. 1. pp. 45-59.
53. 1941 'A New Copper-plate Grant of Kadamba Ravivarma : 12th Year', *New Indian Antiquary*, Vol. IV, No. 5. (Aug. 1941) pp. 178-81.
54. 1941 'Six Silahara Inscriptions in the Prince of
1941 Wales Museum', *Epigraphia Indica*, Vol. XXV, pp. 269-281 (with B.S. Upadhyaya).
55. do— 'An Inscription of Jaitugi, Saka 1188', *Epigraphia Indica*, No. XXVI, pp. 127-130.
56. 1941 'A Copper-plate Grant of Chalukya Vijaya-
1942 ditya : Saka 632', *Epigraphia Indica* Vol. XVII, 322-26.

57. do— 'A Stone Inscription of Yadava Ramachandra: Saka 1222', *Epigraphia Indica*, Vol. XXVI, No. 4, pp. 282.
58. do— 'Dohad Stone Inscription of Mahamuda (Begarha), V.S. 1545, Saka 1410', *Epigraphia Indica*, Vol. XXVI, pp. 212-225.
- 59.59. -do- Hilol plates of year 470', *Epigraphia Indica*, Vol. XXIV, No. 33, pp. 213-218.
60. 1969 'An Early Beahmi Cave Inscription from Pala'. *Epigraphia Indica*, Vol. XXXVIII, pp. 167-68. (with Mrs. S. Gokhale)
61. 1975 'Early Epigraphical Evidence of the Prevalence of Jainism in Gujarat', Western Maharashtra and Andhra Pradesh', *Prachya Pratibha*, Vol. II, No. 1, pp. 109.

Numismatics :

62. 1939 'A Rare Gold Coin of Huviska', *JNSI*, Vol. I, pp. 9-10.
63. 1940 'Three New Specimens, of the Rare Variety of Eran. Ujjayani Coin,' *JNSI*, Vol. II, 1940, pp. 81-82.
64. 1952 'A New Type of Satavahan Coin From Nasik', *JNSI*, Vol. XIV, pp. 1-2.
65. 1953 'Coins from Nasik Excavations'. *JNSI*, Vol. XV, 1953, pp. 1-8.
66. 1954 'Ten Tiny Silver Punch-marked (Raupys Mashaka) Coins from Maheshwar', *JNSI*, Vol. XVI, 1954, pp. 1-3.
67. 1955 'Copper Punch-marked Coins from Nagari', *JNSI*, Vol. XVII, 1955, pp. 1-28.

Prehistory :

68. 1942 'In Search of Early Man Along the Sabar-mati', *Journal of the Gujarat Research Society*, 1942.
69. 1943 'Pre and Proto-history of Gujarat', *The Glory That was Gujaradesa*, Pt. 1, pp. 12-40.
70. 1944 'The Second Gujarat Prehistoric Expedition : A Preliminary Account of the Search of Microlithic man in Gujarat', *New Indian Antiquary*, Vol. VINO. 1, (April 1944) pp.

- 1-5. (With Mrs. Iravati Karve).
71. 1945 'Studies in Prehistory of the Deccan (Maharashtra) : A Survey of the Godavari and the Kadva near Nipad', *Bulletin of the Deccan College Research Institute*, Vol. IV, No. 3, pp. 1-6.
 72. 1945 'The First Gujarat Prehistoric Expedition,' *Bibliography of Indological Studies prepare by Prof. G. M. Moraes*.
 73. 1945 'Studies in Prehistory of the Deccan (Maharashtra) a further Survey of the Godavari (March 1944)', *Bulletin of the Deccan College Research Institute* Vol. VI and No. 3, March 1965, pp. 131-137.
 74. 1946 'A Palaeolithic Handadze from the Sabarmati Valley', *Journal of the University of Bombay*, Vol. IV, Pt. IV. (Jan. 1946). pp 8-10.
 - P. 75. 1947 'They Used Brain Surgery 10,000 years ago,' *Continental Daily Mail*, Paris 14.6. 1947.
 - P. 76. 1947 'Life in the Stone Age in India,' *The Hindu*, Sept. 14, 1947.
 77. 1949 'Early Primitive Microlithic Culture and people of Gujarat' *American Anthropologist*, pp.. 28-34, (with Iravati Karve).
 78. 1950 'Studies in the Prehistory of Karnataka,' *Bulletin of the Deccan College Research Institute*, Vol. XI, (1950-51) pp. 56-82 with Subha Rao and R. V. Joshi).
 79. 1953 'Ancient and prehistoric Maharashtra,' *Journal of the Bombay Branch of Royal Asiatic Society*, Vol. XXVII, pt. 1, pp. 99-106
 80. 1955 'Excavations at Langhnaj,' *Gujarat Man* Vol. IV, (Feb. 1955) pp. 33.
 81. 1956 'The Microlithic Industry of Langhnaj, Gujarat,' *Journal of the Gujarat Research Society*, Vol. XVIII, No. 4 (Oct. 1956), pp. 275-84.
 82. 1956 'Nathdwara: A Palaeolithic Site in Rajputana,' *Journal of the Palaeontological Society of India* Inaugural No. Vol. 1, (1956), pp. 99-100.
 83. 1957 'Stone Age Cultures of Malwa,' *Journal of the Palaeontological Society of India*, Lucknow

- (1957), D. N. Wadia Jubilee Number, Vol 2 pp. 183-89, (With A. P. Khatri).
84. 1957 'Is Soan Flake Industry?', *Journal of Asiatic Society of Bengal*, (Science), Vol. XXII, 16-62.
 85. 1958 'The Middle Palaeolithic Culture of the Deccan-Karnataka and Central India', *Journal of the Palaeontological Society*, (with K. D. Banerjee).
 - P. 87. 1962 'Prehistory and Archaeology in India'. *Navroz Annual*, 1962 pp. 127-74.
 - P. 88. 1963 'Stone Age finds in Saurashtra : Link with Harappan Era', *Times of India*, 28. 4. 1963.
 89. 1963 'Prehistory in India', *The Indo-Asian Culture*, Vol. XI, No. 3, (Jan. 1963), pp. 269-278.
 - P. 90. 1963 'The Story of Man in Poona 1,50,000 years ago', *Times of India*, 26. 4. 1963.
 91. 1964 'Middle Stone Age Culture in India and Pakistan', *Science*, Vol. 146, No. 3642, pp. 365-75, 16th Oct.
 - P. 92. 1965 'Prehistoric Migration in South India', *Times of India*, 28. 3. 1965.
 93. 1965 'Early Stone Age in Saurashtra', in *Diputacion Provincial De Barcelona Institute De Prehistory Archaeologia*, Barcelona, 1965, Monographiss XVI, pp. 327-46.
 - P. 94. 1965 'Links with Stone Age near Bellary', *The Hindu*, 3. 5. 1965.
 95. 1965 'Aryans in the Gangetic Valley', (Dr Sampurnanand Felicitation Vol.) pp. 41-44.
 96. 1966 'Prehistory and Proto-history of India', *Att, VI Congress Internazionale Della Scienza Preistoriche a Protohistoriche Seize V-VIII*.
 97. 1966 'Prehistoric Ahmednagar', *Studies in Indian Culture, Dr Ghulam Yazdani Commemoration Volume*, Ed. By Prof. H.K. Sherwani, Hyderabad, A. P. 1966, pp. 39-42.
 98. 1966 'Early Stone Age in Poona', *Studies in Prehistory, Robert Bruce Foote Memorial Volume*, Ed. Sen and Ghose, 1966, pp. 77-89.
 99. 1966 'Sir Rustom and Research in Anthropology', *The Journal of Anthropological Society of*

100. 1966 'A Revised Study of the Soan Culture', *The Anthropologist*, Vol. XIV, No. 1, pp. 1-40.
101. 1968 'Beginning of Civilization in South India', *II Int. Conf. on Tamil Studies*, pp. 1-15 (Separate Brochure).
102. 1969 'Early Man in the India', *JAS, Bombay*, 1966-67 (New Series) pp. 173-181.
103. 1969 'Prehistoric Man and Primitives in South Gujarat and Konkan', *Journal of the Anthropological Society of Bombay*, New Series, Vol. XII, No. 1, 1966, pp. 34-38.
104. 1970 'The Middle Palaeolithic Cultures of India, Central and Western Asia and Europe', *Central Asia 1970* Ed. by Amalendu Guha, pp. 25-52 (With Illustrations and maps).
105. 1971 'Earliest Traces of Man in Bengal', *The Times of India*, January 24, 1971.
106. 1971 'The Prehistoric Background of Uttar Pradesh', *Eastern Anthropologists* Vol. XXIV, No. 1, Jan. April, 1971, pp. 25-38.
107. 1971 'The Philosophy of Archaeology in India or Theoretical and Methodical Approaches in Archaeological Interpretations in India', *Journal of Indian History*, Vol. XLVIII, April, 1970, pp. 27-42.
108. 1971 'Punjab and the Aryans or Prehistoric Punjab', *Prof. K. A. N. Shastri Felicitation Volume*, Madras, 1971 pp. 259-269.
109. 1971 'Early Man in Ice Age Kashmir', *Science Today* December 1971
110. 1971 'New Evidence for Early Man in Kashmir', *Current Anthropology*, Vol. 2, No. 4, pp. 558-62.
111. 'The Handaxe Industry in the Punjab', in *Perspectives in Palaeo-anthropology*, Ed. by Ashok K. Ghosh, Calcutta, 213-19.
112. 1972 'Puranas and Prehistory of Bihar', *JIH*, XLVIII, Dec. 1970, pp. 461-68.
113. 1974 'The Handaxe Industry in the Punjab', in *Perspectives in Palaeo-anthropology*, Ed. A. K.

Ghosh, pp. 213-19.

114. 1976 'Early and Middle Palaeolithic Culture in India and Pakistan', in Colloque VII to Palaeolithique INFERIEUR at MOYEN en INDE en ASIE CENTRALE, en CHNE at Dans Sut-Est Asiatique, Nia. pp. 1-30.
115. 1977 'Prehistoric Europe', *Illustrated Weekly of India* 26th June 1977, pp. 30-33.

Proto-history :

116. 1953 'Archaeological Sequence of Central India'. *South Western Journal of Anthropology*, Vol. 9. No. 4 (1953) pp. 343-356 (with S. B. Deo and B. Subba Rao).
117. 1953 'Excavations in the Narmada Valley', *Journal of the M.S. University of Baroda*, Vol. II, No. 2.
118. 1955 'Navadatoli Dancers', *Antiquity* Vol., XXIX, pp. 28-31 (March 1955)
119. 1955 'Spouted Vessels from Navadatoli (Madhya Bharat) and Iran', *Antiquity* Vol. XXIX, pp. 12-15, June.
120. 1955 'Flat Bronze Axes from Jorwe, Ahmednagar District, Deccan', *Man*, Vol. IV, p. 1, Jan. 1955.
121. 1956 'Animal Fossils and Palaeolithic Industries from the Pravara Basin at Nevasa, District Ahmednagar', *Ancient India*, XII, pp. 35-52.
122. 1957 'The making-up of India', *Journal of the Maharaja Sayajirao University of Baroda*, Vol. VI, No., 1 (March 1957) pp. 27-32.
123. 1957 'The Excavations at Maheshwar and Nevasa and their possible bearing on the Puranic History,' *The Sardha Satabdi Commemoration*, Vol. JAS (1804-1954) pp. 229-239.
124. 1958 'Pre and Proto-History of Malwa', *An Introduction* Lecture delivered on the inauguration of the *Madhya Pradesh* Itihas Parishad on 10.7.58, Deccan College, Poona.
125. 1958 'New Light on the Aryan Invasion', of India: Links with Iran of 1000 B.C. Discovered in Central India' *Illustrated London News*, Sept.,

- 10, 1958, pp. 478-79.
126. 1959 'A Unique Realistic Painting of the chalcolithic Period in the Deccan', *Dr S.K. Belwalkar Felicitation* Vol. pp. 223-24.
127. 1959 'Excavations at Navdatoli and Maheshwar', *Akashwani*, 15.11.59,
128. 1959 'Four-Thousand Year Old Links Between Iran and Central India ; New Excavations at Navdatoli', *Illustrated London News*, Sept. 5, 1959.
129. 1962 'New Links between Western Asia and the India of 4000 years ago : Excavations in 'Huge' 'Dust Heap' of Ahar, Near Udaipur', *Illustrated London News*, Sept. 1, 1962, pp. 222-25,
130. 1963 'Beginning if Civilization in Rajasthan', in *Second Seminar on the History of Rajasthan Supplement* to the M.S. College Magazine, p. 1-16.
131. 1963 'The Earliest Farmers in the Narmada Valley, *The Indo-Asian Culture*, Vol. XI, No. 1, pp. 31-38.
- P. 132. 1963 'Protohistory in India', *Indo-Asian Culture*, Vol. XI, pp. 355-60.
133. 1964 'New Light on the Indo-Aranian or Western Asiatic Relations between 1700 B.C.—1200 B.C.', *Artibus Asiae* Vol. XXIV, pp. 312-332.
134. 1964 'Traditional India Chronology and C-14 dates of Excavated sites', *Journal of Indian History*, Vol. XIII. pp. 635-650.
135. 1969 'Kot-Diji and Hissar III', *Antiquity*, pp. 142-44.
- P. 136. 1970 'Iranian Influence on Early Indo-Pakistani Cultures', *Central Asia, Indian Council of Cultural Relations*, New Delhi, pp. 53-74.
137. 1972 'The Chalcolithic Cultures of India', *Archaeological Congress and Seminar*, Ed. by Dr S.B. Deo Nagpur University, Nagpur, 1972.
138. 1973 Inamgaon. 'A Chalcolithic Settlement in Western India' with Ansari, Z.D. and Dha-valikar, M.K. *Asian Perspectives*, Vol. XIV, pp. 139-46.

- 168 139. 1974 'Radio Carbon and Indian Archaeology', *BDCRI*, Vol. XXXIV pp. 161-68.
140. 1975 'The Earliest Private Shrine in Western India and its relationship with the Mother Goddess in Europe and Western Asia', Valcomina Symposium De La Prehistorique (Edizioni DEL CENTRO 1975), pp. 457-61.
141. 1975 'An Early Farmer Village in Central India', (with Z.D. Ansari and M.K. Dhavalikar), *Expedition*, Vol. 17, pp. 1-11.
142. 1976 'Ecological Background of South Asian Prehistory', Ed. K. A. R. Kennedy and G.R. Possehe, South Asia occasional papers, South Asian Programme Council University, pp. 132-65.

Survey Articles :

143. 1941 'Regional and Dynastic study of South Indian Monuments', *Bhandarkar Oriental Research Institute*, Vol. XXI, pp. 213-228.
144. 1942 'Pre-Vedic Times to Vijayanagar : A Survey of 25 years', Work in Ancient Indian History and Archaeology', *Progress of India Studies*, 1917-42, pp. 195-238. Govt. Oriental Series Class B.No., Bhandarkar Oriental Research Institute.
145. 1943 'Pre- and-Proto-History of Gujarat', In the *Glory that was Gujaradesha*, pp. 12-40.
146. 1952 'Archaeology and Indian Universities', Presidential Address Archaeology Sec. *All India Oriental Conference*, Lucknow.
147. 1952 'Archaeological Planning for Gujarat', *Presidential Address, Gujarat Workers' Conference*, Ahmedabad, pp. 1-9.
148. 1957 'Man in the arid and semi-arid regions of the
1958 Peninsular India', H.D. Shankalia and R.V. Joshi. *Bulletin, Deccan College Research Institute* (Taraporewalla Vol. XVIII). pp. 123-36.
149. 1960 'Archaeology of Gujarat', An Introduction, pp. 14-20.
150. 1962 'India' in courses towards Urban Life, pp. 80-83 'From Food collection to Urbanisation

in India', *Indian Anthropology*, Asia Publishing House, pp. 66-104. 169

151. 1965 'The History of Man in Maharashtra : Work done and plan of work ahead', Presidential address, *First Maharashtra Itihas Parishad*, Bombay.
152. 1966 'Archaeology in India during the year 1965', *Indica*, Vol. 3, pp. 85-97.
153. 1967 'Prehistoric Culture and Remains in the Volume on History : Ancient Period, *Gazetteer of India, Maharashtra State*, Part 1, pp. 1-56.
154. 1968 'Historical Geography from Inscriptions', *Review of Indological Research in last 75 years* (M.M. Siddheshwar Shastri Chitrava Felicitation Volume), pp. 249-288.
155. 1970 'History of Jamnagar District' in *Gazetteer of India, Gujarat State, Jamnagar District*. pp. 51-56.
156. 1971 'History of Kutch' in *Gazetteer of India, Gujarat State, Kutch District*, pp. 65-109
157. 1971 'Indian Influence on the World', *The Times of India*, 15th August 1971, (Review. Vivekanand Centenary Vol).
158. 1971 'Underwater Archaeology', (Review, *The Times of India*, 7.2.1971).
159. 1971 'The Man in Maharashtra', *Bhavan's Journals*, 9.4.1970 and 20.9.1970, pp. 53-58.
160. 1972 'Archaeology for the Masses', *The Times of India*, June, 1972.
161. 1972 'Vidharabha Diggings', *The Times of India*, 3.9.72.
162. 1972 'Maitraka—Kalina Gujarat', (by Dr H.P. Shastri) *Vidya* pp. 1-6.
- P. 163. 1972 'Not of this World' (Review, *The Times of India*) 31.1.72.

Sculpture, Iconography and Architectures :

164. 1938 'An American Fertility Figure and Lakulisa', *Indian Culture*, Vol. IV, pp. 358-59.
165. 1938 'A Unique Image of Surya', *Jornal of University of Bombay*, Vol. VI, pp. 50-57.
166. 1939 'Rare Figure of Visnu from Gujarat', *Journal*

- of University of Bombay*, Vol. VII, pp. 1-16.
167. 1939 'Two Rare Images of Buddhisht Trantric Deity Padmanartersvara', *Indian Historical Quarterly*, Vol. XV, pp. 278-80.
168. 1939 'An Unusual form of a Jain Goddess', *Jain Antiquary*, Vol. IV, pp. 86-88.
169. 1939 'Six Different types of Canesa Figures', *Journal of Indian History*, Vol. XVIII, pp. 188-94.
170. 1939 'Jaina Iconography', *New Indian Antiquary*, Vol. II, pp. 497-520.
171. 1940 'The Ambarnath Temple' *BDCRI*, Col. I, pp. 170-77.
172. 1941 'The early Medieval Temples of Gujarat and Treatise on Architecture', *Journal of Gujarat Research Society*, Vol. III, pp. 1-4.
173. 1942 'Jain Monuments, from Deogarh,' *Journal of the Indian Society Oriental Art*, Vol. II, 97-104.
174. 1944 'Iconographical Elements in the Mahabharata', *BDCRI*, Vol. V, pp. 149-61 (V.S. Sukhatankar Vol.)
175. 1946 'The Antiquity of Glass Bangles in India', *BDCRI*, (K.N. Dikshit Memorial Vol.) Vol. VIII, Nos. 3-4, pp. 252-259.
176. 1948 'A Unique VI Century Inscribed Sati Stele from Sangli, Kolhapur State', *BDCRI*, Vol. III, pp. 161-166 (with M.G. Dikshit). XXI, pp. 10-11.
177. 1953 'Vitthala and Hari, *Journal of University of Bombay*. Vol. I.
178. 1960 'The Nude Goddess of Shameless Women', in Western Asia, India and South-Eastern Asia, *Artibus Asia* Vol. XXIII, 23.
179. 1966 'A Unique Iron Spear-head from Tripuri', *Bulletin of the Museum and Picture Gallery, Baroda*, Vol. XX.
- P. 180. 1969 'Terracotta Art of India', *Marg*, Vol. XXIII (with Dr M. K. Dhavalikar)
- P. 181. 1970 'Iron Age in Maharashtra', *The Times of India*, August 16, 1970.
182. 1970 'Digambar Jain Tirthankaras from Maheshwar and Newasa', *Acharya Vijayalokhasuri*

Comm. Vol, pp. 116-120.

- P. 183. 1970 'Cultural Outposts of India', II, *March of India*, (Adopted from the Broadcast of AIR), pp. 24-28.
184. 1970 'Stone Age Hill Dwellers of South India', I *INDICA*, Vol. 1-2, pp. 129-140.
185. 1967 'Research Report—The Socio-economic Significance of the Lithic Blade Industry of Navdatoli, Madhya Pradesh', *Current Anthoropology*, Vol. 8, pp. 262-268.
- P. 186. 1967 'Archaeology and the Ramayana', *The Times of India*, 26. 12. 1967.
187. 1967 'Prehistory and Proto-history in India between 1962-66', *Journal of Indian History*, Vol. XLV, pp. 99-107.
- P. 188. 1967 'Isolation and Survival : Easter Island', Review of the Nowregian Archaeological Expedition to the Eastern Island and the pacific Vol. 2, 1965. *The Times of India*, Sunday Ed. 24. 12. 1967.
189. 1967 'Nava-Saurashtra-Mandala', *Jouranal of the Gujarat Research Society*, Vol. XXIX, pp. 229-46.
190. 1968 'History of Kutch', *Journal of Gujarat Research Society*, Vol. XXX.
191. 1976 'Morphological Evolution of Nataraja', *The Eastern Anthropologist*, Vol. 29, pp. 119-42.
192. 1976 'Nataraja in the Mahabharata', *Subrahmanyam Felicitation Volume*, pp. 51-56.
- P. 193. 1977 'Evolution of the State Architectur', (Review) *Times of India*.
- P. 194. 1977 'Modern Museum', (Review), *Times of India*.

Archaeology and National Problems :

- P. 1. 1966 'To Kill or not to kill (the cow)', *The Times of India*, Sunday 18. 12. 66.
- P. 2. 1967 'The Cow Slaughter in History', *Seminar*, 93, May 1967. pp. 6-16, (this is documented).
- P. 3. 1967 'Cultural Divisions of India', *Science Today* August.
- P. 4. 1967 'India's Language', *Education and Culture*, Vol. IV.

- 172 P. 5. 1967 'Our National Monuments', *The Times of India*, 30. 11. 1967.
- P. 6. 1977 'Election Results in Historical perspective', *Bhavan's Journal*, June 19, 1977. pp. 55-56.

Articles in Gujarati (1933-1976)

૧. ૧૯૩૩ “મોહન-જોદડો અને મિન્ધુ નદીના તટની ગ્રિસ્તપૂર્વ ૫૦૦૦ વર્ષ પહેલાંનો સંસ્કૃતિ” પ્રસ્થાન, ભાગ ૧૫-૧૬ પાં ૧૨૨-૧૨૬, ૨૪૫-૫૪
૨. ૧૯૩૩ “કલા અને સંસ્કૃતિનાં પ્રચારમાં નાલન્દાનો પાલો” વસન્ત પાં ૧૩૦-૩૫
૩. ૧૯૩૫ “કુન્દમાલા અને ઉત્તરરામચરિતા વચ્ચેનું સામ્ય” પ્રસ્થાન ભાગ ૧૦, પાં ૩૨૨-૨૮
૪. ૧૯૩૮ “કાઠિયાવાડમાં પ્રાચીન જૈન શિષ્યોની ઉપલબ્ધિ” જૈન સત્યપ્રકાશ, (વિશેષાંક) પાં ૧૪૮-૫૨.
૫. ૧૯૪૧ “પુરાતત્વની દષ્ટિએ ગુજરાતના પ્રાચીન ધર્મો” ત્રૈમાસિક, પું ૪ પાં ૫૮-૬૧ અને કું ૬ અં ૧, પાં ૮૬-૧૦૧
૬. ૧૯૪૪ “ગુજરાતમાં પ્રાગૈતિહાસિક માનવ” માનસી, પાં ૧૭-૨૦
૭. ૧૯૪૭ “કાંચની બંગડીની પૌરાણિકતા” અધ્યોગ (અહમદાવાદ) દીપાવલી અંક, પાં ૧૭-૧૮, ૧૩૫-૪૦
૮. ૧૯૪૭ “ગુજરાતમાં પાષાણયુગની સંસ્કૃતિ” ગુજરાતમિત્ર અને ગુજરાતદર્પણ (દીવાલી અંક)
૯. ૧૯૫૪ “પ્રાચીન ગુજરાતનાં સંસ્કૃતિ સૂચવતા વ્યક્તિનામો” ગુજરાતમિત્ર અને ગુજરાતદર્પણ, (દીપાવલી અંક) પાં ૬૫
૧૦. ૧૯૫૬ “પ્રાચીન ગુજરાતના રાજકીય વિભાગો” ગુજરાતમિત્ર અને ગુજરાત દર્પણ, (દિવાલી અંક) પાં ૧૭
૧૧. ૧૯૫૭ “મહેશ્વર-નાવડાટોલીની ૩૫૦૦ વર્ષે જુની તામ્ર-પાષાણયુગી સંસ્કૃતિ અને આર્યોનું ભારતમાં આગમન” જાંઘાંક ગુજા-રીં સોસાં, પાં ૩૨૩-૩૬
૧૨. ૧૯૫૮ “મહેશ્વરની તામ્રનાપાળયુગની સંસ્કૃતિ” અલંડાનંદ, અપ્રેલ, ૨૭-૪૨
૧૩. ૧૯૬૦ “પુરાણવસ્તુ સંશોધન શાસ્ત્ર” સંસ્કૃતિ, પાં ૨૬૧-૬૪
૧૪. ૧૯૬૧ “કૃમ્ભારની કલા” કુમાર, માર્ચ, પાં ૮૨

- 174 ૧૫. ૧૯૬૨ “માનવ ઇતિહાસ” (ઇતિહાસ-પુરાતત્વ વિભાગનાં પ્રમુખનું
વ્યાખ્યાન ગુજરાતી સાહિત્ય પરિષદ ૨૧ મું. અધિવેશન
કલકત્તા
૧૬. ૧૯૬૨-૬૩ “પુરાતત્વ સંશોધન : અભ્યાસ અને આલેખન” જૅ. ગ્રાંફ દી
ગુજ. રો. સોમા. ૧૯૬૨-૬૩, પા. ૬૮-૭૨
૧૭. ૧૯૬૩ “નાલંદા” સમર્પણ, ગ્રાંવટોવર, પા. ૧૩૬-૪૦
૧૮. ૧૯૬૩ “સૌરાષ્ટ્રમાં માનવ સંસ્કૃતિનો પ્રારંભ અને વિકાસ” સમર્પણ
જૂન, પા. ૨૨-૨૬, ૧૦૫-૧૦૭
૧૯. ૧૯૬૩ ‘પુરાણો અને પુરાતત્વની દ્રષ્ટિએ દ્વારકા’ સમર્પણ, જુલાઈ,
૨૨-૨૮
૨૦. ૧૯૬૭ “ગુજરાતમાં પ્રાગૈતિહાસિક સંશોધન” બુદ્ધિપ્રકાશ, પા. ૩૭૧-૩૭૫
૨૧. ૧૯૬૮ “ગુજરાતનું પુરાતત્વ” શ્રી દિલ્લી ગુજરાતી સમાજ હીરક
મહોત્સવ સ્મૃતિગ્રંથ
૨૨. ૧૯૬૮ “ભારતના સાંસ્કૃતિ વિભાગો” સમર્પણ, ફે. બ્રુ. પા. ૧-૧૦
૨૩. ૧૯૬૮ “સૌરાષ્ટ્રની ભૂસ્તરરચના અથવા શૈલી” પથિક, જુલૅ. ગ્રાં. પા. ૩૧-૩૫
૨૪. ૧૯૬૮ “સૌરાષ્ટ્રનાં પાષાણયુગો” પથિક, જુલૅ. ગ્રાં. પા. ૪૧-૪૫
૨૫. ૧૯૬૮ “ભરુચમાં બૌદ્ધધર્મ અને બૌદ્ધધર્મીયો” પથિક, સપ્ટે. પા. ૧૫
૨૬. ૧૯૬૮ “કચ્છમાં આદિ અશ્મયુગ” પથિક, ગ્રાંવટો. પા. ૪૧-૪૫
૨૭. ૧૯૬૮ મહારાષ્ટ્રમાં જૈન ધર્મનો પ્રચાર”, ૨૩૦૦ વર્ષ પહેલાં થયો
હતો: પાલ્યનો શિલાલેખ” મુંબઈ સમાચાર, ૨૫ ડિસં.
૨૮. ૧૯૭૧ નવસુરાષ્ટ્રમણ્ડલ” પથિક (દિપોત્સવી ગ્રં. પા. ૩૩-૩૭
૨૯. ૧૯૭૧ “પુરાતત્વો અને પુરાણો”, મહાભારત અને રામાયણ,”
સ્વાધ્યાય, (દિપોત્સવી ગ્રં. પા. ૮૮-૧૧૦
૩૦. ૧૯૭૧ “કાશ્મીરમાં હિમયુગીન માનવ” પથિક, (દિપોત્સવી ગ્રં. પા.)
અને સમર્પણ (દિપોત્સવી ગ્રં. પા.)
૩૧. ૧૯૭૨ ‘સૌમનાથમાં ખોદકામ” (રાજકોટ) ફેબ્રુ., માર્ચ, અપ્રિલ
૩૨. ,, “સૌમનાથમાં પુરાતત્વીય ખોદકામ” પ્રદર્શન બક્ષતે પ્રકટ
થયેલી પત્રિકા, પા. ૨-૩૨
૩૩. ,, “ગુજરાતના પાષાણયુગો” પથિક, મે-જૂન, પા. ૨૫-૩૩
૩૪. ૧૯૭૪ “આધ્યરામાયણ” કુમાર, સુવર્ણ યોગિતિ ગ્રં. વર્ષ ૫૦,
અંક ૧૨, ડિસે. ૧૯૭૩, પા. ૪૩૬-૪૦
૩૫. ,, “જૈનધર્મની પ્રાચીનતા” કુમાર, મે ૧૪૬-૪૭ ૧૭૩

३६. ,, 'लांघणज अने मोडासानो प्रागैतिहासिक अने सांस्कृतिक इतिहास' समर्पण जुलाई, पा० ३६-२६, ५०-५७
३७. ,, महाभारत अने पुरातत्व' साधना, दिपोत्सवी अंक, पा० २५-७
३८. ,, 'मोडासानी पकवेली नामांकित पकवेली भाटीनी व्यक्ति' प्रवासी, दिपोत्सवी अंक, पा० ४५-४६
३९. १९७५ 'डा० हयमुख साकलिया' जीवन घडवैया, नवचेतन, जुलै, पा० १२-१५
४०. ,, 'महाभारतमां रोमनगरी' साधना, दिपोत्सवी अंक
४१. ,, महाभारतनुं युद्ध अने तेनो समय' समर्पण, दिपोत्सवी अंक, ४१-४८
४२. १९७६ 'महाभारतनुं युद्ध अने लोहयुग' गुज० इन्टरनेशनल (त्रिमासिक) जान्यु० फेब्रु० पा० २७-३२
४३. ,, 'लंका अने सिंहल ताम्रपत्रो अने शिनालेखोमां' पथिक, दिपोत्सवी अंक
४४. ,, 'आपण ऐतिहासिक वारमो' पथिक, अप्रिल, पा० ५०

Articles in Marathi (1951-1977)

१. १९५१ 'प्राचीन आणि प्रागैतिहासिक महाराष्ट्र' नवभारत खं. ५, पृ. १-६
२. १९५३ 'प्रागैतिहासिक गुजरात' पराग, पृ. ११-१६
३. १९७६ 'गुजरात, महाराष्ट्र आणि कर्नाटक यामधील सम्बन्ध आणि पट्टी-हट्टी' नवभारत, खं. ३० पा० १०-१३
४. १९५६ 'कोल्हापुरात रोम कुंभ सकाल
५. ,, नेवासाचे अश्मयुगातील दोन संस्कृतिचे अवशेष' (आणि शां. भा. देव) सकाल
६. ,, नेवासे १९५४-५६' पूणे विद्यापीठ पत्रिका (पाणि शां. भा. देव)
७. ,, 'तलाजा : बौद्ध गुफा' साधना २४ मे.
८. १९५७ 'नालंदा विद्यापीठ' जीवन विकास, पृ. १६२
९. १९५६ महाराष्ट्रातील इतिहासपूर्व संस्कृतिया उषः काल' जीवन विकास, वर्ष ३ रे, पृ. २८८-२९०
१०. ,, 'महाराष्ट्रातील इतिहासपूर्व कालातील पहिला मानूस' जीवन विकास, वर्ष ३ रे, पृ. ४९८-५०१
११. १९६१ 'प्राचीन ईराणी व मध्य भारतीय कलाकृतीतील साम्य'

१२. १९६३ "पाषाणयुगातील पुर्णे" केसरी
१३. ,, "दीड लाख वर्षापूर्वी पुण्यात पाषाणयुगी मानव" रविवार सकाल, १४ अप्रिल
१४. ,, "द्वारका नगरी तीन वेळा वमविली" सकाल, २६ मे०
१५. ,, "दीड लाख वर्षापूर्वी पंढरीत मानवी वस्ती" गोकर्ण; (पंढर-पूर) ७ डिसे.
१६. १९६७ "संस्कृत राजभाषा व प्रदेश भाषा" सकाल ८ जाने.
१७. ,, "पेसेफिक वेटावर मानवाच्या प्राचीन वस्तीचा पुरावा" रविवार सकाल १० सप्टे.
१८. १९६७ "प्राचीन भारताचे सांस्कृतिक रूप दर्शन" सकाल, १० नोव्हें.
१९. ,, "प्राचीन कालात करण्यांत आलेला सांस्कृतिक ऐकात्मतेचा प्रयत्न" केसरी, २४ डिसें.
२०. १९६८ "श्री कृष्णाची द्वारका : नवे संशोधन" महाराष्ट्र टाईम्स ३ ऐप्रिल
२१. ,, "रामावताराचा आणि रामायणाचा काल" सकाल, २४ जाने.
२२. ,, "महाराष्ट्रात अति प्राचीन कालात जैन धर्मप्रचार" सकाल, २४ नोव्हेंम्बर
२३. १९६६ "इनामगांव उत्खनातील नवीन मूलभूत माहिती" (आणि अन्तारी, ढवलीकर), सकाल, २३ फेब्रु.
२४. ,, "ताम्रनापाणयुगीन महाराष्ट्र" केसरी, २३ फेब्रु.
२५. ,, "उत्कृष्ट कोरीव शिल्पातून तीर्थंकर नेमीनाथ यांची जीवनकथा" स्वराज्य, १४ मे.
२६. ,, "फलटणचे प्राचीन वैभव" (आणि सौ. गोखले) सकाल, १५ नोव्हें.
२७. ,, "काश्मीरमध्ये हिमयुगीन मानवाचे अवशेष" सकाल, डिसे. २१.
२८. १९७० "महाराष्ट्रातील उत्खनन आणि इनामगांव उत्खननाचे महत्त्व" २३ फेब्रु.
२९. ,, "महाराष्ट्रातील आद्य मानव" केसरी, मे १०
३०. ,, "महाराष्ट्रातील अति प्राचीन मानवी वसाहतीसम्बन्धी नवे संशोधन" केसरी, मे १७
३१. ,, "दुसऱ्या अश्मयुगापासून स्थिर जीवनाला प्रारम्भ" केसरी, मे २४.
३२. ,, "ग्रामीण जीवनाला प्रारंभ झाल्यानंतर आढळून येणारी

- अनेकविध वैशिष्ट्ये" केसरी, मे ३१
३३. ,, "महाराष्ट्रातील आध्यात्म" केसरी, २४ मे मानव
३४. ,, "महाराष्ट्रातील आध्यमानवासम्बन्धी संशोधन" केसरी, ३१ मे
३५. ,, "रोमचे प्राचीन आसामशी दलणवलण"
३६. १९७१ "महाराष्ट्राची आदी-माता" म. टाईम्स, १९ मे
३७. ,, "अदम्युग ते लोहयुग" (पुस्तिका) १९७१
३८. ,, "डेक्कन कॅलिजची दीडशे वर्ष" स्वराज्य, २१ ऑगस्ट
३९. ,, "महाराष्ट्रातील मानव" अस्मिता महाराष्ट्राची (संपादित) १९७१ पा, १-३७
४०. १९७२ "सिन्धु संस्कृतिचे स्वरूपदर्शन" केसरी २, १२, १९, २६ सप्टे.
४१. ,, "भिल्ल सरगम उत्खनन" रविवार सकाल, फेब्रुअरी ६
४२. ,, "कलावस्तूंची लूटमार कशी थांबेल" सकाल, २ जुलै
४३. ,, "भारत सरकारचा पुरातत्व विभाग जनताभिमुख होणार की नाही" तरुण भारत, ९ जुलै १६ जुलै
४४. ,, "दुर्भिल भारतीय कलावस्तूंचे वर्लीमसधील संग्रहालय" केसरी
४५. ,, "पुरात-त्वीय दृष्टिकोणातून रामायणावर नवीन प्रकाश" १ नोव्हें. प्रसाद (रोप्यमहोत्सवी अंक), १ डिसें. प्रसाद
४६. १९७५ "पुरात-त्वीय दृष्टिकोणातून रामायणावर नवीन प्रकाश" अमृत, मार्च आणि एप्रिल
४७. ,, "पुण्यातील आदिमानव" रोप्यमहोत्सव स्मरणिका, पुरी महानगरपालिका १९५०-१९७५ पृ. ४१-४५
४८. ,, "द्वारका आणि पुरात-त्व" अमृत, सप्टे. पा. १५१-५८
४९. १९७२ "रामायणवर्ती नवीन प्रकाश" केसरी सप्टे.
५०. १९७४ "पुरात-त्व संशोधन एक गुप्तचर विध्या" कलश.
५१. १९७६ "महाराष्ट्राची आदि मातृका" लोकशिक्षण, एप्रिल, मे पा. ३
५२. ,, "सालवन क्षेत्र, गोंड आणि लंका" लोकस-ता, ५.११.७६
५३. ,, "पादुका प्रसंग रामायणात नंतर" सकाल ७.११.७६
५४. १९७७ "महाभारतचा युद्ध आणि लोहयुग" नवभारत, जान्यु.
५५. ,, "रामाच्या पादुका आणि पादुका पूजेचे महत्त्व" अमृत, जाने. पा. ७७-८१

१. १९५५ "कवि कालिदास और महेश्वरी की प्राचीनता" जर्नल ओफ दी मध्यप्रदेश इतिहास परिषद भाग ४ पृ० ७-९
२. १९५६ "नेवासाके पर्यवेक्षणका ऐतिहासिक व सांस्कृतिक महत्त्व" धर्मयुग अवतूबर, पृ. ६-७
३. १९६८ "जैनधर्म सम्बन्धी एक अत्यन्त महत्त्वपूर्ण शिलालेख की खोज" धर्मयुग, १६, २९ दिसम्बर, पृ. १६, १६
४. १९६८ "मैंने प्रागैतिहासिक कालीन भारत की खोज कैसे की" धर्मयुग दिसम्बर, पृ० १६-१७
५. ,, "क्या आदि मानव ने मध्यप्रदेश में डेरा डाला था" धर्मयुग १२ जनवरी, पृ० १६-१७
६. १९६९ "घने जंगलों और चट्टानों के बीच महाराष्ट्र में यह आदि मानव" धर्मयुग २६ जनवरी, पृ० १६-१७
७. ,, "क्या राजस्थान में कभी सागर लहरें इठलाती थी" धर्मयुग ९ फरवरी पृ० १६-१७
८. ,, "भारत के सबसे पुराने मानव-अस्थिपन्जर गुजरात में" धर्म-युग २३ फरवरी, पृ० १६-१७
९. ,, "दक्षिण भारत में सभ्यता का आदि आरम्भ" धर्मयुग २३ मार्च पृ० १६-१७
१०. , "यहां साढ़े तीन हजार साल पहले की मानव सभ्यता के अवशेष मिले" धर्मयुग २२ जुलाई पृ० २०-२१
११. ,, "गुजरात की प्रागैतिहासिक एवं ऐतिहासिक संस्कृतियों का आभास चित्रों द्वारा आलेखन" धर्मयुग, १६ नवम्बर, पृ० १६-१७
१२. ,, "क्या तीन लाख साल पहले काश्मीर में आदमी रहता था" धर्मयुग ३० नवम्बर, पृ. १६-१७
१३. १९७० "कामरूप की घाटी में प्रागैतिहासिक अवशेष" धर्मयुग १९ अप्रैल पृ० १६ तथा २६ अप्रैल पृ. १६-१७
१४. १९७१ "तूतन खामन की कब्र के तिलस्मी रहस्य" धर्मयुग, फरवरी १४, २१, २८ और मार्च ७.
१५. १९७२ "प्रागैतिहासिक काल में पंजाब" धर्मयुग मार्च, पृ. ५ और १२
१६. ,, "प्रागैतिहासिक काल में उत्तर प्रदेश" धर्मयुग अप्रैल, पृ. ६, १६

१७. १९७२ "प्रागैतिहासिक काल में बिहार" धर्मयुग मई,
 १८. ,, "पुराण रामायण और महाभारत" आजकल, अप्रैल,
 पृ. २-५
 १९- ,, "ऐतिहासिक कला की जाँच और पुरातत्व की परखनली"
 धर्मयुग
 २०. ,, "रावण की लंका कहाँ थी" धर्मयुग, जून, पृ. ५-६ ३५
 २१. ,, "रामायण का रचना काल" धर्मयुग मई, पृ. ६-८
 २२. ,, "बंगाल में मानव का निवास कितना पुराना" धर्मयुग
 २ जुलाई
 २३. ,, "प्रागैतिहासिक संस्कृति, पुराण और पुरातत्व का ताना-
 बाना" धर्मयुग, १६ जुलाई, पृ. २५-२६ ४६
 २४. ,, "पश्चिम बंगाल का खेती करने वाला पुराना गाँव" धर्मयुग
 जुलाई,
 २५. १९७५ "रामायण पुरातत्व की दृष्टि से" कादम्बिनी, जुलाई,
 ३६-३९
 २६. १९७६ "महाभारत युद्ध कल्पित है" कादम्बिनी, जनवरी,
 पृ. २६-३१
 २७. ,, "महाभारत का युद्ध और लौहयुग" धर्मयुग, ५ दिसम्बर,
 पृ. २४
 २८. ,, "महाभारत का युद्ध और लौहयुग" धर्मयुग, २८ नवम्बर,
 पृ. २४
 २९. १९७७ "रावण की लंका मध्य प्रदेश में" कादम्बिनी, अप्रैल,
 पृ. २४-२६

LIST OF PH.D. STUDENTS WHO WORKED UNDER DR H.D. SANKALIA

<i>No.</i>	<i>Year</i>	<i>Name</i>	<i>Title of the thesis</i>
1.	1944	D. R. Patil	Cultural History from the Vayu Purana.
2.	1947	A. V. Naik	Archaeology of the Deccan.
3.	1949	B. Subba Rao	Prehistoric and early historic Bellary.
4.	1952	S. B. Deo	History of the Jaina Monachism from Inscriptions and Literature.
5.	1952	G. A. Deleury	The Cult of Vithoba.
6.	1953	R. V. Joshi	Pleistocene Studies in the Malaprabha Basin—Prehistory and Geochronology.
7.	1954	Mrs. Sumati Mulay	Studies in the Historical and Cultural Geography and Ethnography of the Deccan.
8.	1957	K. D. Banerjee	Middle Palaeolithic Industries of the Deccan.
9.	1957	M. S. Mate	Maratha Architecture (1650-1850)
10.	1958	B. N. Chapekar	Iconographical Elements in the Mahabharata.
11.	1958	A. P. Khatri	Stone Age Cultures of Malwa.
12.	1960	Z. D. Ansari	Geometrical approach to Prehistoric and Ancient Indian Pottery.
13.	1960	Mrs. Shobhana Gokhale	Studies in the Historical and Cultural Geography and Ethnography of Madhya Pradesh.
14.	1960	N. Isaac	Stone Age Cultures of Kurnool.
15.	1960	C. G. Mohapatra	Stone Age Cultures of Orissa.
16.	1961	K. R. Kapre	Archaeology of the Ancient Place Names in the Deccan.

- 182
17. 1961 V. N. Mishra Stone Age Cultures of Rajputana.
 18. 1962 K. L. Lele Studies in the Historical and Cultural Geography and Ethnography of Rajasthan.
 19. 1963 Mrs. Madhur Mohini Mathur Studies in the Historical and Cultural Geography and Ethnography of U. P.
 20. 1963 M. K. Dhawalikar Life in the Deccan as depicted in The Ajanta Paintings.
 21. 1963 P. R. Sharma Archaeology of Nepal.
 22. 1963 Suresh B. Pillay Historical and Cultural Geography and Ethnography of South India.
 23. 1965 R. Singh Palaeolithic Industries of Northern Bundelkhand.
 24. 1966 Nisar Ahmed Stone Age Cultures of the Upper Sona Valley.
 25. 1966 R. S. Pappu Pleistocene Studies in the Upper Krishna Basin.
 26. 1966 M. S. Nagaraja Rao Chalcolithic Cultures of the Deccan With Special Reference to North Karnataka.
 27. 1966 S. N. Rao Stone Age Cultures of Nalgonda District (A. P.).
 28. 1966 M. L. K. Murthy Stone Age Cultures of Chittoor District (A. P.).
 29. 1966 Miss Malati Nagar Ahar Culture—An Archaeological and Ethnographic Study.
 30. 1968 B. G. Supekar Pleistocene Stratigraphy and Prehistoric Archaeology of the Central Narmada Basin.
 31. 1968 K. Paddayya Pre and Proto-Historic Investigation of the Shorapur Doab.
 32. 1968 K. Thimma Reddy Prehistoric Cultures of the Cudappah District (A. P.).
 33. 1968 S. N. Tipnis Contribution of Upasani Baba to Cultural Life of Maharashtra and India.
 34. 1969 P. B. Gadre Cultural Archaeology of Ahmadnagar during Nizam Shahi Period.
 35. 1969 Mrs. Omi Manchanda Study of the Harappan Pottery in Comparison with Pre-Harappan and Post-Harappan Proto-Historic

- Ceramic industries.
36. 1969 S. Sundra Megaliths in North Karnataka.
 37. 1969 R. D. Archaeology of the Brahmaputra
Choudhary Valley of Assam (Pre-ahom period)
 38. 1970 Rehman Ali Art and Architecture of the Kala-
curies of Tripuri.
 39. 1972 V. S. Lele Late Quaternary Studies on the
Bhadar Valley Surashtra.
 40. 1973 Miss Suman An Ethno-Archaeological Study of
Pandya the Harappan and Post Harappan
Cultures of Saurashtra.
 41. 1973 Miss S. Guzdar Quaternary Environment and Stone
Age Cultures of the Konkan Cos-
stal, Maharashtra.